



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature – List Browser Protocol

APIM Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.7
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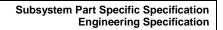


Revision History

Date	Version	Notes		
May 30, 2013	1.0	Initial Release		
October 14, 2013	1.1	Updated Release		
		94540-2-List Browser Icon and	rpaquet2 - Added List structures from A64 document and renamed function.	
	Structured Da		Moved Mobile Apps into Media. No functional changes other then adding new	
	0		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	
	LDD CDEO 0	04507 0 Course Number	Server.	
	LBP-GREQ-2	94527-2-Source Number	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.	
	LBP-GREQ-2	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.	
	LBP-GREQ-2 Icon	94530-2-Non Metadata Source	rpaquet2 - Removed APIM SPSS text from the requirement.	
	LBP-GREQ-2	94531-2-Object State	rpaquet2 - Removed APIM text and replaced with general name List Browser Server. Also removed APIM SPSS text.	
	LBP-GREQ-2	94532-2-Response Time	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.	
	LBP-GREQ-294533-2-Applink Source Unavailable		rpaquet2 -Removed SYNC text and replaced with general name List Browser Server.	
	LBP-GREQ-294534-2-No Applink App		rpaquet2 - Removed SYNC text and replaced with general name List Browser	
	Selected		Server.	
	LBP-GREQ-294535-2-Applink Metadata		rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.	
	LBP-GREQ-294539-2-Non Indexing Source with Metadata		rpaquet2 - Removed APIM SPSS text.	
	LBP-GREQ-301568-1-Metadata Icons		rpaquet2 - Incorporating A64 document	
		01569-1-Source Icons	rpaquet2 - Incorporating A64 document	
	LBP-GREQ-3	01570-1-Phone Icons	rpaquet2 - Incorporating A64 document	
	LBP-GREQ-301571-1-Navigation Icons		rpaquet2 - Incorporating A64 document	
	LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure		rpaquet2 - Incorporating A64 document	
	LBP-GREQ-3 - Phone List S	01575-1-List Server Phone Info	rpaquet2 - Incorporating A64 document	
	LBP-GREQ-3	01576-1-List Server Navigation ion List Structure	rpaquet2 - Incorporating A64 document	
	LBP-GREQ-3	01589-1-List Server Generic Services List Structure	rpaquet2 - Incorporating A64 document	
	LBP-GREQ-3	01590-1-List Server Generic Mode List Structure	rpaquet2 - Incorporating A64 document	
	List i - vaiet i	VIOGO LISE OFFICERE		
June 13, 2014	1.2	Updated Release		
	LBP-FUN-REQ-019734/B-List Browser Icon		rpaquet2 - Added new Requirements 089676, 089678 and 089684 for	
	and Structure	d Data (TcSE ROIN-294540-2)	GAL/CarPlay.	
		9676/A-LBP Media definition for	aaldalla-new requirement for Carplay/GAL	
	GAL/CarPlay.		11.00.00	
		9678/A-LBP phone definition for	aaldalla-new requirement for GAL/CarPlay	
	GAL/CarPlay.	9684/A-LBP Navigation	aaldalla- new requirement for LBP while GAL/CarPlay	
	definition for 0		aaiualia- new requirement for LDF write GAL/Carriay	
•				



December 18, 2015	1.3 Updated Release	
	STR-063612/B-List Data Structure (TcSE ROIN-293797-1)+	sberg15: Added new variant of Item Descriptor Attribute requirement
	STR-063612/C-List Data Structure (TcSE ROIN-293797-1)	sberg15: added Activation Event Attribute requirement variant 2.
	LBPv2-SR-REQ-128955/B-Item Descriptor Attribute+	rpaquet2 - Added Radio Mixed Presets to the table. Replaces requirement 19789
	LBPv2-SR-REQ-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-REQ-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/B-Interface Requirements (TcSE ROIN-293803-1)	sberg15: Added new method descriptions for prefetch and list update function.
	LBPv2-MD-REQ-130601/A-ItemInfo_Rq	New requirement format
	LBPv2-MD-REQ-130388/A-PrefetchState_St	New requirement
	LBPv2-MD-REQ-130602/A-ItemInfo_Rsp	New requirement format
	LBPv2-MD-REQ-130389/A-	New requirement
	ListServerUpdate_Ind	
	STR-063618/B-Navigating Devices and List Servers (TcSE ROIN-293805-1)	sberg15: Added new requirement for Data Prefetch definition.
	LBP-FUN-REQ-019734/C-List Browser Icon and Structured Data (TcSE ROIN-294540- 2)+	rpaquet2 - Update requirement 089678.
	LBP-FUN-REQ-019734/D-List Browser Icon	sberg15: added server structure requirements for Basic and Advanced EPG and
	and Structured Data (TcSE ROIN-294540-2)	Journaline to support enhanced DAB features coming with C519
	LBP-REQ-019753/B-Source Icons (TcSE ROIN-301569-1)	sberg15: Separated AM/FM icon ID into a single AM and FM ID; Added icon ID for DAB;
	LBP-REQ-019757/B-List Server Phone Info - Phone List Structure (TcSE ROIN-301575-1)	rpaquet2 - updated table for empty list to fix AIMS issue.
	LBP-REQ-019758/B-List Server Navigation Info - Navigation List Structure (TcSE ROIN- 301576-1)	rpaquet2 - Updated No matches found to show Return instead off Ok to fix AIMS issue.
	LBP-REQ-089678/B-LBP Phone definition for GAL/CarPlay.	rpaquet2 - removed text to indicate no phone connected and added CarPlay LBP Structure.
	LBP-REQ-132690/B-List Server RadioDataService1 - EPG List Structure for Centerstack HMI	sberg15: removed Advanced EPG Root server structure.
	LBP-REQ-132691/B-List Server RadioDataService2 - Journaline List Structure for Centerstack HMI	sberg15: Reduced number of list items in root list from 65534 to 51.
	LBP-REQ-192091/A-List Server RadioDataService3 – Advanced EPG List Structure for Centerstack HMI	sberg15: initial release for Advanced EPG
	LBPv2-SR-REQ-205695/A-Activation Event Attribute	sberg15: new variant
	LBP-SR-REQ-129269/A-Data Prefetch	sberg15: new requirement
March 9, 2016	1.4 Updated Release	
	STR-063612/D-List Data Structure (TcSE	rpaquet2 - removed 019787 replaced by 205695 which was already released
	ROIN-293797-1) LBPv2-SR-REQ-128955/D-Item Descriptor	previously. rpaquet2 - Updated 0xA3 Radio Mixed Presets to include a parameter for PresetState.
	Attribute	sberg15 - Updated 0xA2 Radio Journaline Data to include a parameter for ChildStatus.
	LBPv2-IIR-REQ-130597/B- LBPClient_LBPServer	rpaquet2 - removed MD 130388 PrefetchState_St.
	STR-063619/B-Functional Definition (TcSE ROIN-293956-1)	rpaquet2 - Added Server list update.
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June 1, 2016	1.5	Updated Release	
LBP-FUN-REQ-019734/E-List Browser Icon and Structured Data (TcSE ROIN-294540-2)			rpaquet2 - Added 222052 per Mobile NAV and APIM team request.
	STR-063529/ 294541)	C-Requirements (TcSE ROIN-	rpaquet2- Added 222052 per Mobile NAV and APIM team request.
		2052/A-LBP Navigation Mobile Navigation	rpaquet2 - new requirement for LBP while Mobile NAV active.
February 17, 2017	1.6	Updated Release	
	LBPv2-SR-REQ-128954/C-Avaliable List Servers+		rpaquet2 - Added 0x0A Radio 2 for providing source list from AHU to rear display.
	LBPv2-SR-REQ-128954/D-Avaliable List Servers		rpaquet2 - Added new list server for Considerate Prompts POI lists
	LBPv2-MD-R ListServerUp	EQ-130389/B- date_Ind	sberg15: corrected typo in ListServer literal All decription field; Added value 0xFFFF All Lists to parameter ListID.
		C-Navigating Devices and List E ROIN-293805-1)	rpaquet2 - Added Static List Usage requirement needed for Considerate Prompts
	LBP-SR-REC	0-250149/A-Static List Usage	rpaquet2: initial release
		Q-019741/B-Unavailable E ROIN-294529-2)	rpaquet2 - Added note to indicate response is for source internal to the responder.
June 16, 2017	1.7	Updated Release	
	LBP-REQ-08 GAL/CarPlay	9676/B-LBP Media definition for .	rpaquet2 - Update requirement per Projection mode owners



Table of Contents

RE	EVISION	HISTORY	2
1	ARCH	IITECTURAL DESIGN	7
•		LBP-SV-REQ-019803/A-Static View (TcSE ROIN-40393-1)	
		LBP-CLD-REQ-019804/A-List Browser Client (TcSE ROIN-159174-1)	
		LBP-CLD-REQ-019805/A-List Browser Server (TcSE ROIN-159175-1)	
		List Data Structure	
	1.4.1	LBP-SR-REQ-019800/A-List Data Structure (TcSE ROIN-177591-1)	8
	1.4.2		
	1.4.3 1.4.4	, , , , , , , , , , , , , , , , , , , ,	
	1.4.5	LBP-SR-REQ-019781/A-Data Type Attribute (TcSE ROIN-40318-2)	9
	1.4.6 1.4.7	· ·	
	1.5 1.5.1	List HierarchyRoot List	
	1.5.2	Parent-Child Lists and List Entries	12
	1.5.3		
	1.5.4 1.5.5	,	
		Interface Requirements	
	1.6.1	LBPv2-IIR-REQ-130597/B-LBPClient_LBPServer	13
		LBPv2-IIR-REQ-130599/A-LBPServer_LBPClient	
		Navigating Devices and List Servers	19
	1.7.1 1.7.2	, , , , , , , , , , , , , , , , , , , ,	
	1.7.3	LBP-SR-REQ-019791/A-Tracking (TcSE ROIN-41670-1)	20
	1.7.4 1.7.5		
	1.7.5	· ·	21
	1.7.7	LBP-SR-REQ-019796/A-Client selects invalid entry (TcSE ROIN-31407-1)	21
	1.7.8 1.7.9	,	
	1.7.1	· · · · · · · · · · · · · · · · · · ·	
	1.7.1	1 LBP-SR-REQ-250149/A-Static List Usage	21
2	Func	TIONAL DEFINITION	22
_		LBP-FUN-REQ-019707/A-Request Root List (TcSE ROIN-293807-1)	
	2.1.1	Use Cases	22
	2.1.2	White Box View	22
		LBP-FUN-REQ-019710/A-Browse a parent List from Root List (TcSE ROIN-293810-1)	
	2.2.1 2.2.2	Use Cases	
		LBP-FUN-REQ-019713/A-Selecting an Entry from Root List (TcSE ROIN-293813-1)	
	2.3.1	Use Cases	
	2.3.2	White Box View	24
		LBP-FUN-REQ-019716/A-Browsing Child List from Parent List (TcSE ROIN-293816-1)	
	2.4.1 2.4.2	Use Cases	
			20

Subsystem Part Specific Specification Engineering Specification

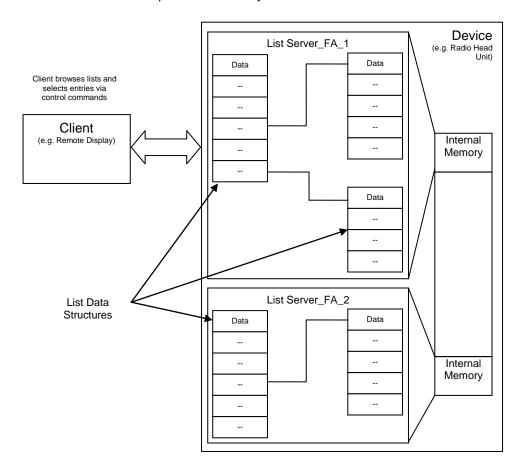
2.5 LBP-FUN-REQ-019719/A-Selecting and Entry from a parent/Child List (TcSE ROIN-293819-1)	
2.5.1 Use Cases	
2.5.2 White Box View	26
2.6 LBP-FUN-REQ-019722/A-Traversing up the Hierarchy from child to parent list (TcSE ROIN-293822-1)	26
2.6.1 Use Cases	
2.6.2 White Box View	26
2.7 LBP-FUN-REQ-019725/A-Traversing up the Hierarchy from Parent to Root (TcSE ROIN-293825-1)	27
2.7.1 Use Cases	
2.7.2 White Box View	27
2.8 LBP-FUN-REQ-019728/A-Browsing down a list (TcSE ROIN-293828-1)	28
2.8.1 Use Cases	28
2.8.2 White Box View	28
2.9 LBP-FUN-REQ-019731/A-Browsing up a list (TcSE ROIN-293831-1)	29
2.9.1 Use Cases	29
2.9.2 White Box View	
2.10 LBP-FUN-REQ-019734/E-List Browser Icon and Structured Data (TcSE ROIN-294540-2)	30
2.10.1 Requirements	
·	
2.11 LBP-FUN-REQ-130789/A-Server list update	39 20
2.11.2 White Box View	
2.11.2 WING DOX VIOW	
3 APPENDIX: REFERENCE DOCUMENTS	41



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.

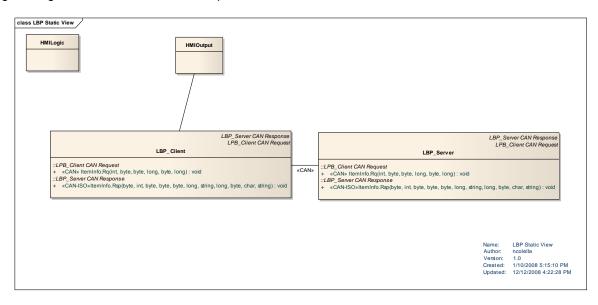


This primary section serves to define the underlining strategy of the list browser protocol. The actual usage of the strategy will be defined in other Functional Area Specifications (FAS) with references back to this primary section. The following subsections shall provide further descriptions of the 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/D-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.

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	Navigation		
•••	Reserved		
0x5F	Navigation Reserved		
0x60	Phone CallerID	{CallTypeIcon}{PhoneTypeIcon}{CallerID}	{\$0-\$FF Represents call type icon, \$0 = Invalid }{\$0-\$FF Represents phone type icon, \$0 = Invalid }{25 characters + EOS}
0x61	Phone Call Category	{ CallTypelcon }{CatName}	{\$0-\$FF Represents call type icon, \$0 = Invalid }{25 characters + EOS}
	Phone Reserved		
0x7F	Phone Reserved		
0x80	BT Device	{DeviceID}{ConnectedIcon}{DeviceName}	{\$0-\$F Represents the index of the bonded BT device, \$0 = Invalid}{\$0-\$FF Represents the connected icon, \$0 = Invalid}{25 characters + EOS}
	BT Device Reserved		,
0x9F	BT Device Reserved		
0xA0	Radio Station	{RadioBand}{IndexNumber}{Frequency} {StationIcon}{StationName}	{\$1 = AM, \$2 = FM, \$3 = DAB, \$4 = SDARS, \$5 = HD, \$0 = Invalid}{\$0-\$1E Represents the stored station number, \$0 = Invalid}{}\$0-\$FFF Represents the frequency, BlockID, SDARS channel number}{\$0-\$FF Represents a station icon (e.g. HD), \$0 = Invalid}{16 characters + EOS}
0xA1	Radio EPG Data	{Icon}{Hour}{Minute}{ProgramName}	{\$0-\$F Represents EPG program icon, \$0 = Invalid }{\$0-\$17 Represents the hour, \$FF = Invalid}{\$0-\$3B Represents the minute, \$FF = Invalid}{128 characters + EOS}
0xA2	Radio Journaline Data	{JournalineListEntry}{ChildStatus}	{50 characters + EOS}{\$1 = NotAvailable, \$2 =
	Data		Available, \$0 = Invalid}



	Mixed Presets	Number}{StationNameShort}{StationNameLong}	Invalid}{\$0 = Empty, \$1 = Available} {\$1 = AM, \$2 = FM, \$3 = DAB, \$4 = SDARS, \$0 = Invalid} {\$0-\$FFFF Represents the frequency, DAB BlockID, SDARS channel number} {HD Number = \$0 - \$F} {StationNameShort = 9 characters max + EOS, RDS Markets: PSName = 8 characters max, No PSName = xxx.yyMHz, Non RDS Markets: AM = xxxx kHz, FM = xxxx 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
			ServiceName = 16 character long name max plus EOS AMFM and SDARS = EOS}
0xA4	Radio Source	{SourceIcon}{RadioSourceName}	{\$0-\$FF represents Source icon, \$0 = Invalid }{25 characters + EOS}
	Radio Reserved		,
0xAF	Radio Station Reserved		

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.

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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.

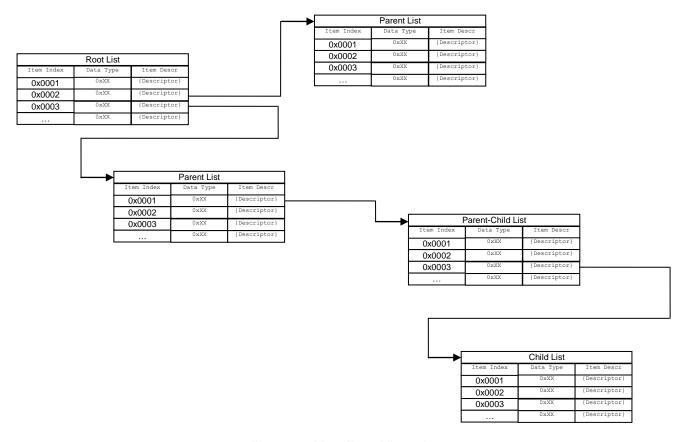


Figure 1 – Lists-Entry Hierarchy

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.

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1.5.5 <u>LBPv2-SR-REQ-128954/D-Avaliable List Servers</u>

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, call lists, etc.
0x04	Generic List 1	Contains only items with Data Types 0,1,2.
0x05	Radio 1	Used for browsing radio data (e.g. Preset lists for AM/FM/DAB/SDARS, etc.) started from cluster.
0x06	Remote CD1	Used for browsing media data (e.g. Artist names, titles, etc.)
0x07	Radio Data Service1	Used to transmit DAB data service Basic EPG.
0x08	Radio Data Service2	Used to transmit DAB data service Journaline.
0x09	RadioDataService3	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 – 0xFF	Reserved	

1.6 Interface Requirements

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

1.6.1.1 LBPv2-MD-REQ-130601/A-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

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 13 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	r age to at the



			3 ···
			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.
	1		
ActiveListID	-	-	Parameter ActiveListID contains
			the list ID from which the items are
			being selected. This information is
			provided by the server's response
			method.
	Root	0x0000	
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
	1		
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	

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	1		
	•••		
	63 items	0x3F	
StartItemInd			Parameter StartItemInd is used to adreess the index value of where to start the request in the response message
	Inactive	0x0000	
	1	0x0001	
	65534	0xFFFE	
	Reserved	0xFFFF	

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

1.6.2.1 LBPv2-MD-REQ-130602/A-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	
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	



		r	1
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
NbrOfItemsRtn	-	-	Parameter NbrOfItemsRtn is used
			to indicate how many items
			provided in the response message
	0	0x0000	
	1	0x0001	
	30	0x1E	
	30	OXIL	
NbrItemsInSelection			Parameter NbrItemsInSelection is
Nomemsinselection			
			used to indicate the total number of
			all items in the active list id.
	0	0x0000	
	1	0x0001	
	65535	0xFFFF	
	<u>.</u>		
stringItemContent (Array(1 NbrOfItemsRtn) of record (ItemIndex, DataType, ActivationEvent, ObjectType, ObjectState, ItemDescriptor)			
	11.4-2	T 0 0000	TB
ItemIndex	List Title	0x0000	Parameter ItenIndex is used to
			associate an index to each list
			item.
	1	0x0001	
	65535	0xFFFF	
DataType	Reserved	0x00	
	DataTypeID_1	0x01	
	Reserved	0xFF	
ActivationEvent			Parameter ActivationEvent is used
1 1 2 1 2 1 2 1 3 1 1			to indicate if a list entry is able to
			be activated or not.
	Not Supported	0x0	Do dolivated of flot.
	Supported	0x1	
Ohio atTi m		ı	Danas atau Ohia at Tura in an I i
ObjectType			Parameter ObjectType is used to
			indicate if the returned list entry is a
			List or Entry Object. List objects
		1	can contain additional data, entry
			objects can be executed.



Subsystem Part Specific Specification Engineering Specification

	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	
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		• •	• •	

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

Message Type: Indication

v1.7 Jun 16, 2017

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	T-	-	The parameter ListID is used to
LISTID			indicate which server list is getting
			updated.
	Root	0x0	Root List is getting updated
	ListID1	0x0001	ListID1 is getting updated
	ListID2	0x0001	ListID2 is getting updated
		0,0002	Listib2 is getting apacted
	List ID65534	0xFFFE	ListID65534 is getting updated
	All Lists	0xFFFF	Value All Lists is used to indicate
	7 th Lioto	OXITTI	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	
EntryIndex	-	-	The parameter EntryIndex shall be
			used to indicate which list entry
			from the ParentID is getting

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		updated. This could be used to indicate this update via HMI output (e.g. grey out list entry etc.)
NoDataExists	0x0000	NoDataExisis shall be set if the
11020102711010		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

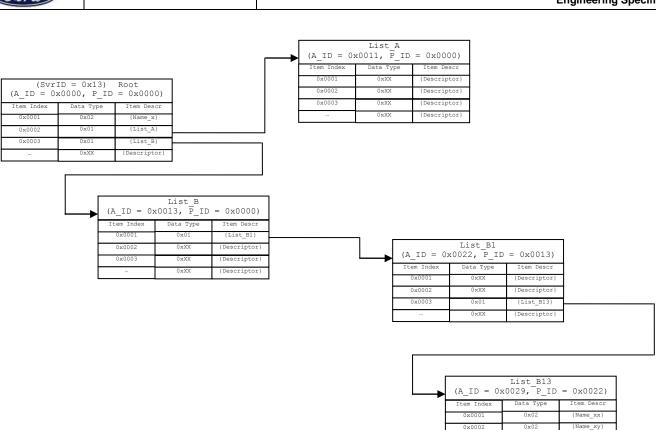
The process of an HMI client browsing the information available on a particular device begins with the client first accessing a particular list server present on the device. Once an HMI client has accessed a particular list server, the client can scroll up and down through items in the list and then 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.

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

The browsing client shall utilize the SetItemInfo.Rq() 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 $A_D = 0x0022$, $P_D = 0x0013$ 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 ActivationEvent is supported for this item, within the active sub-list, then the settings for the SetItemInfo.Rq() method would be as follows: ActiveListID = 0x0022 (active list), ItemIndex = 0x0003 (item selected).

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

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

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 NbrOfItemsRtn 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 NbrOfItems equal to six. Likewise the server will respond back with NbrOfItemsRtn equal to six. With a starting index greater then 0x0001 with five items requested, the client would request NbrOfItems equal to five with the server responding back with NbrOfItemsRtn 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.

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 21 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	7 ago 21 o7 11



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

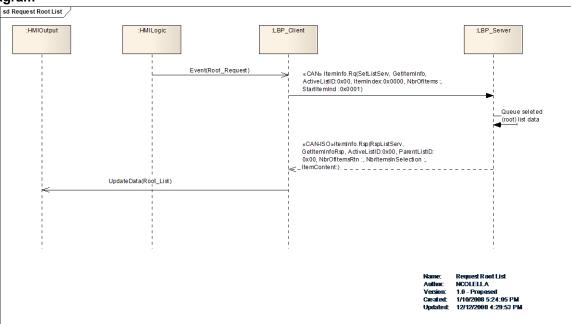
2.1.2.1 White Box Scenarios

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

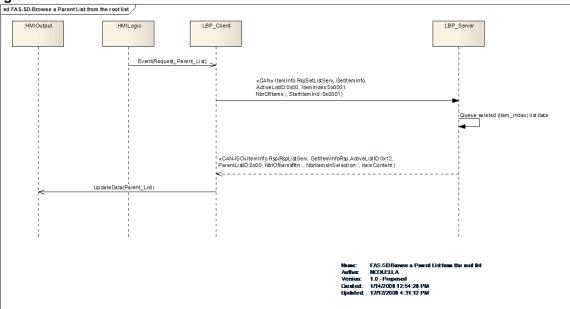
2.2.2.1 White Box Scenarios

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.
	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

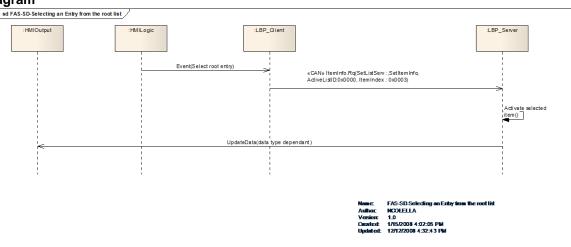
2.3.2.1 White Box Scenarios

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.

FILE: LIST BROWSER PROTOCOL APIM SPSS

V1.7 Jun 16, 2017

FORD MOTOR COMPANY CONFIDENTIAL

Page 24 of 41

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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

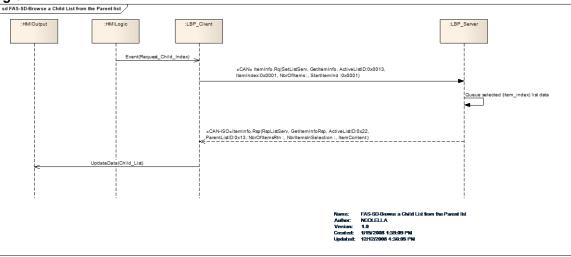
2.4.2.1 White Box Scenarios

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

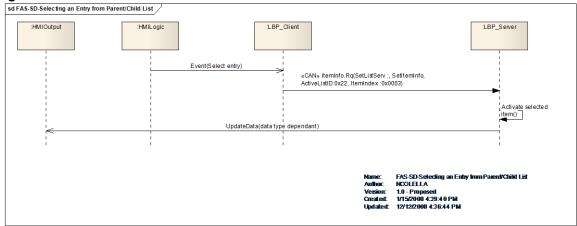
2.5.2.1 White Box Scenarios

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)

Sequence Diagram



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

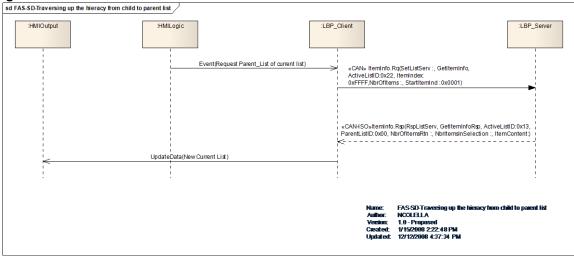
2.6.2.1.1 LBP-SD-REQ-019724/A-Traversing up the hieracy from child to parent list (TcSE ROIN-39802-1)

Linked Elements

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

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 26 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	. age = 0 0





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

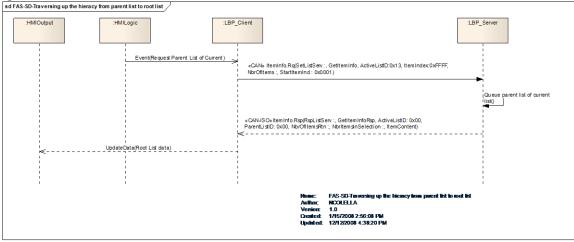
2.7.2.1 White Box Scenarios

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

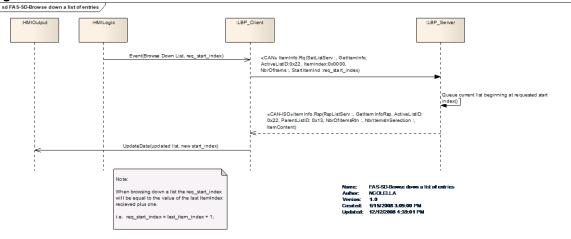
2.8.2.1 White Box Scenarios

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

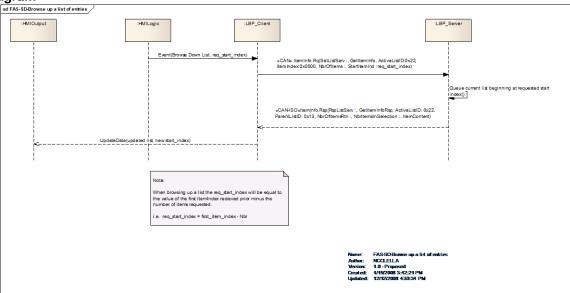
2.9.2.1 White Box Scenarios

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

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.

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 30 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	, ago so s



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

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

Ford	Ford M	otor Company		Subsystem Part Specific Specification Engineering Specification
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
Unknown	24	0x18	No	Unknown Icon
Reserved	25-255	0x19 0xFF	No	Reserved for future use.

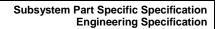
2.10.1.19 LBP-REQ-019753/B-Source Icons (TcSE ROIN-301569-1)

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 LBP-REQ-019754/A-Phone Icons (TcSE ROIN-301570-1)

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

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 32 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	9





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Reserved	0x080xFD
Blank	0xFE
Unknown	0xFF

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

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/A-List Server Generic Media 1 - Media List Structure (TcSE ROIN-301572-1)



istServerID =	Generic Media1 (0x02)					
ActiveListID =	Media Root (0x0000)				1	
ParentList ID =	Media Root (0x0000)				1	
VbrItemsInSelection=	20				1	
ItemIndex	DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	settem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	{Media Root List}	Invalid	Invalid
)x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001 or 2	Set Source to Entry 1
0x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001 or 2	Set Source to Entry 2
0x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001 or 2	Set Source to Entry 3
0x0003	Media Type (0x20)	Supported (0x1)	List Object (0x2)	(Source Icon) (Source #:Source Name)	Goto Active List ID 0x0001 or 2	Set Source to Entry 4
X0004	iviedia Type (0x20)	Supported (0x1)	List Object (0x2)	[Source Icon] (Source #.Source Ivame)	Goto Active List ID 0x0001 of 2	Set Source to Entry 4
)x0014	Media Type (0x20)	Supported (0x1)	Entry Object (0v1)	{Source Icon} {Source #:Source Name}	Invalid	Set Source to Entry 20
X0014	ivicula Type (0X20)	Cupported (UX1)	Entry Object (0x1)	Course really Course In Course Humey	Invana	Joer Course to Entry 20
xample 1:						
						
)x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{USB Icon} 1:USB	Goto Active List ID 0x0001 or 2	Set Source to Entry 1
)x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	(USB Icon) 2:USB	Goto Active List ID 0x0001 or 2	Set Source to Entry 2
xample 2:						
			,			,
)x0001	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)		Invalid	Set Source to Entry 1
)x0002	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{0x07} 2:iHeart Radio	Invalid	Set Source to Entry 2
Source Info: {device nam Metadata1: {mainField 1} Metadata2: {mainField 2} Metadata Icon 1 and 2: 0	e} } } bx17 (No Icon)	in S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St		
ListServerID =	e] 	in S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St	1	
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID =	e)	in S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St		
Source Info: (device nam // detadata1 (mainField 1) // detadata2 (mainField 2) // detadata Icon 1 and 2 C // dote: Fields described in // istServerID = // ActiveListID = // ParentList ID =	e] 	in S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St		
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Note: Fields described in SistServerID = ActiveListID = ParentList ID = WorltemsIn Selection =	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000)	in S28 63.4.2.41 TP-LO Indexing Device Fe	eatures	-		
Source Info. (device nam Wetadata1. (mainField 1) Wetadata2 (mainField 2) Wetadata2 (mainField 2) Wetadata Icon 1 and 2. C Note: Fields described in ListServerID = ActiveListID = ParentList ID = WortlemsInSelection = ItemIndex	e)x17 (No Icon) n examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent	oatures Object Type		getitem(itemindex) Behavior	settlem() Behavior
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = VorttemsInSelection = ItemIndex 0x0000	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0)	Object Type List Label	ItemDescriptor {Device Name}	Invalid	Invalid
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Note: Fields described in Intervention = Note: Interve	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02) Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1)	Object Type List Label Entry Object (0x1)		Invalid Invalid	Invalid Play Entry 1
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = WorltemsInSelection = RemIndex 1000001 1000001	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1)	ItemDescriptor {Device Name} Now Playing Play All	Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Mote: Fields described in ListServerID = ActiveListID = ParentList ID = WorltemsInSelection = ItemIndex 0x0000 0x0001 0x0001 0x0002 0x0003	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	ItemDescriptor [Device Name] Now Playing Play All Shuffle All	Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = WorltemsInSelection = RemIndex 1000001 1000001	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1)	ItemDescriptor [Device Name] Now Playing Play All Shuffle All	Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 What is the second of the second o	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = WortlemsInSelection = ItemIndex Ux00000 Ux00001 Ux0001 Ux0002 Ux0003 Ux0004	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	ItemDescriptor [Device Name] Now Playing Play All Shuffle All	Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3
Source Info. (device nam detadata1. (mainField 1) detadata2 (mainField 2) detadata2 (mainField 2) detadata Icon 1 and 2. C Note: Fields described in istServerID = activeListID = arentList ID = vbritemsInSelection = temIndex ixxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	e)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Indexing Device Fe Not Supported (0x0) Not Supported (0x0)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 What is the second of t	e) X17 (No Icon) examples are referenced Generic Media1 (0x02) Indexable Features (0x0) Media Root (0x0000) 4	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata Icon 1 and 2: 0 Note: Fields described in IstServerID = ActiveListID = ParentList ID = WorltemsInSelection = ItemIndex Ixxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Not Supported (0x0) Non Indexing Device	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 Wote: Fields described in ListServerID = ActiveListID = ParentList ID = WorltemsInSelection	e) X17 (No Icon) examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Not Supported (0x0) Non Indexing Device	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: C Whote: Fields described in ListServerID = ActiveListID = ParentList ID = WorldemsInSelection = ItemIndex Nx0000 Nx0001 Nx0002 Nx0003 Nx0004 Example: Nx0000 ListServerID = ActiveListID = ParentList ID = ParentList ID =	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Not Supported (0x0) Non Indexing Device	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music	Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata I.con 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = VorItemsInSelection = ItemIndex DixX0001 DixX0002 DixX0003 DixX0004 Example: DixX0001 DixX0002 DixX0001 DixX0001 DixX0002 DixX0001 DixX0001 DixX0001 DixX0001 DixX0001 DixX0001 DixX0010 DixX0	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Not Supported (0x0) Non Indexing Device (0x0002)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label Features	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music Ken's iPod	Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4
Source Info. (device nam Wetadata1: (mainField 1) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata2: (mainField 2) Wetadata Icon 1 and 2: 0 Wote: Fields described in ListServerID = ActiveListID = ParentList ID = WotlemsInSelection = ItemIndex Wxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	e) X17 (No Icon) examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Indexing Device (0x0002) ActivationEvent	Object Type List Label Entry Object (0x1) List Label Features Object Type	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music Ken's iPod	Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4 invalid settem() Behavior
Source Info. (device nam Metadata1: (mainField 1) Metadata2: (mainField 2) Metadata2: (mainField 2) Metadata I.con 1 and 2: 0 Note: Fields described in ListServerID = ActiveListID = ParentList ID = VorItemsInSelection = ItemIndex DixX0001 DixX0002 DixX0003 DixX0004 Example: DixX0001 DixX0002 DixX0001 DixX0001 DixX0002 DixX0001 DixX0001 DixX0001 DixX0001 DixX0001 DixX0001 DixX0010 DixX0	Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02)	in S28 63.4.2.41 TP-LO Indexing Device Fe 001) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Not Supported (0x0) Non Indexing Device (0x0002)	Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) List Label Features	ItemDescriptor {Device Name} Now Playing Play All Shuffle All Similar Music Ken's iPod ItemDescriptor {Device Name}	Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Invalid Play Entry 1 Play Entry 2 Play Entry 3 Play Entry 4

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



		Phone Root	List			
istServerID = ctiveListID =	Phone Info (0x03) Phone Root (0x0000)					
arentList ID = brItemsInSelection =	Phone Root (0x0000) 5		7			
ItemIndex x0000	DataType Generic Text (0x02)	ActivationEvent Not Supported (0x0)	Object Type List Label	ItemDescriptor Phone	getitem(itemindex) Behavior Invalid	setItem() Behavior Invalid
(0001	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Quick Dial	Goto ActiveListID 0x0001 or 0x0006	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
0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Outgoing Calls Missed Calls	Goto ActiveListID 0x0004 or 0x0006	Invalid Invalid
0005	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	MISSEG CAIIS	Goto ActiveListID 0x0005 or 0x0006	invalid
stServerID =	Phone Info (0x03)	Quick Dia				
ctiveListID =	Quick Dial (0x0001)					
arentList ID = orttemsInSelection =	Phone Root (0x0000) 9					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0000 0001	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
0002 0003	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 2 Place Call to entry 3
0004	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 4
0005 0006	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
0007	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 7
0008 0009	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 8 Place Call to entry 9
		All Calls				
tServerID =	Phone Info (0x03)	All Calls				
etiveListID = arentList ID =	All Calls (0x0002) Phone Root(0x0000)				\dashv	
rItemsInSelection=	25	A reference		14 P		and the second of the second
ItemIndex 0000	DataType Generic Text (0x02)	ActivationEvent Not Supported (0x0)	List Label	All Calls	getItem(ItemIndex) Behavior Invalid	setItem() Behavior Invalid
0001 0002	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 1 Place Call to entry 2
0003	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 3
0004	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 4 Place Call to entry 5
0006	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 6
0007	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 7 Place Call to entry 8
0009	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 9 Place Call to entry 10
000A 	•		Entry Object (0x1)			•
0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
		Incoming Ca	lls			
stServerID = ctiveListID =	Phone Info (0x03) Incoming Calls (0x0003))				
arentList ID = orltemsInSelection =	Phone Root (0x0000)					
ItemIndex	DataType	ActivationEvent		ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0000 0001	Generic Text (0x02) Phone CallerID (0x60)	Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	Incoming Calls {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Invalid Place Call to entry 1
0002	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 2
0003	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 3 Place Call to entry 4
0005 0006	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 5 Place Call to entry 6
0007	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 7
0008	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 8 Place Call to entry 9
000A	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 10
0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
		Outgoing Ca	lls			
stServerID = ctiveListID =	Phone Info (0x03) Outgoing Calls (0x0004)	1				
arentList ID =	Phone Root(0x0000)	'				
orttemsInSelection = ItemIndex	25 DataType	ActivationEvent		Item Descriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0000	Generic Text (0x2) Phone CallerID (0x60)	Not Supported (0x0)	List Label	Outgoing Calls {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Invalid
0001 0002	Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 1 Place Call to entry 2
0003 0004	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 3 Place Call to entry 4
0005	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 5 Place Call to entry 6
0007	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 7
0008	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 8 Place Call to entry 9
000A	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 10
0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
		Missed Cal	s			
tServerID =	Phone Info (0x03)	missed Call				
etiveListID = arentList ID =	Missed Calls (0x0005) Phone Root (0x0000)				Ⅎ	
ritemsinSelection= Itemindex	25 DataType	ActivationEvent		ItemDescriptor	getitem(itemindex) Behavior	setItem() Behavior
0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Missed Calls	Invalid	Invalid
0001	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
0003	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 3 Place Call to entry 4
0005	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 5
0006	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
0008	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 8
0009 000A	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
	•				•	
0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
stServerID =	Phone Info (0x03)	Empty List	S			
ctiveListID =	History Empty(0x0006)]	
arentList ID = orttemsInSelection=	Phone Root (0x0000) 1				1	
Homindov	DataType	ActivationEvent	Object Type	Item Descriptor	getItem(ItemIndex) Behavior	setItem() Behavior
temIndex (0000	Generic Text (0x02)	Not Supported (0x0)		No Phonebook	Invalid	Invalid



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

ListServerID =	Navigation Info (0x01)					
ActiveListID =	Navigation Root (0x00)					
ParentList ID =	Navigation Root (0x000	00)				
NbrltemsInSelection =	4				1	
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Quick Navigation	Invalid	Invalid
0x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	My Home	Invalid	Set Dest to entry 1 (If MyHome Not Saved, Goto Active List ID 0x0)
0x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Previous Destinations	Goto Active List ID 0x0003 or 0x0004	Invalid
0x0003	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Favorites	Goto Active List ID 0x0001 or 0x0004	Invalid
0x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	POI Nearby	Goto Active List ID 0x0002	Invalid
	,	Favorites				
ListServerID =	Navigation Info (0x01)					
ActiveListID =	Favorites (0x0001)	20)				
ParentList ID =	Navigation Root (0x000	JO)				
NbrltemsInSelection =	25 DataType	Anti-ontine-France				0.01
ItemIndex		ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Favorites (Favorites	Invalid	Invalid
0x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest1)	Invalid Invalid	Set Dest to entry 1 Set Dest to entry 2
0x0002 0x0003	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest2)		
0x0003	Generic Text (0x02) Generic Text (0x02)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{FavDest3} {FavDest4}	Invalid Invalid	Set Dest to entry 3 Set Dest to entry 4
0x0004	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest4} {FavDest5}	Invalid	Set Dest to entry 4 Set Dest to entry 5
0x0006	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest6)	Invalid	Set Dest to entry 5 Set Dest to entry 6
0x00007	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest7)	Invalid	Set Dest to entry 7
0x0007	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest8)	Invalid	Set Dest to entry 8
0x0009	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest9)	Invalid	Set Dest to entry 9
0x000A	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest10)	Invalid	Set Dest to entry 10
						·
0x0019	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest25}	Invalid	Set Dest to entry 25
		POI Nearby				
ListServerID =	Navigation Info (0x01)					
ActiveListID =	POI Nearby (0x0002)					
ParentList ID =	Navigation Root (0x000	00)				
NbrltemsInSelection =	5					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	POI Nearby	Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_1}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_2}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0003	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_3}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0003 0x0004	Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004	Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004 0x0005 ListServerID =	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01)	Not Supported (0x0) Not Supported (0x0) Previous Destination	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004 0x0005 ListServerID = ActiveListID =	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID =	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01)	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbritemsInSelection=	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x000) 20	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003)	List Object (0x2) List Object (0x2) ons	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005	Invalid Invalid
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbrItemsInSelection= ItemIndex	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations . Navigation Root (0x00) 20 DataType	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003) 00) ActivationEvent	List Object (0x2) List Object (0x2) ons Object Type	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) **RemDescriptor**	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getRem(Remindex) Behavior	Invalid Invalid settlem() Behavior
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbrItemsInSelection=	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 Data Type Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Destinati (0x0003) 00) ActivationEvent Not Supported (0x0)	List Object (0x2) List Object (0x2) ons Object Type List Label	(Favorite_FOI_Cat_4) (Favorite_FOI_Cat_5) ItemDescriptor Previous Destinations	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005	Invalid Invalid settlem() Behavior Invalid
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbrItemsInSelection= ItemIndex 0x0000	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations . Navigation Root (0x00) 20 DataType	Not Supported (0x0) Not Supported (0x0) Previous Destinati (0x0003) 00) ActivationEvent Not Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) **RemDescriptor**	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettem(ItemIndex) Behavior Invalid	Invalid Invalid settlem() Behavior
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NorItensinSelection= ItemIndex 0x0000 0x0001 0x0002	Generic Text (0x02) 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) Not Supported (0x0) Previous Destinati (0x0003) 00) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1) Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Prev_Dest_1) (Prev_Dest_2)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettem(ItemIndex) Behavior Invalid Invalid	Invalid Invalid settlem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = Noritems InSelection= Kemindex 0x0000 0x0001 0x0001 0x0002 0x0003	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x000 20 Data Type Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003) 00) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	(Favorite_FOI_Cat_4) (Favorite_FOI_Cat_5) ItemDescriptor Previous Destinations (Prev_Dest_1) (Prev_Dest_2) (Prev_Dest_3)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettlem(ItemIndex) Behavior Invalid Invalid Invalid	Invalid Invalid Invalid Invalid Invalid Set Deat to entry 1 Set Deat to entry 2 Set Deat to entry 2 Set Deat to entry 3
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbrItems InSelection= ItemIndex 0x0000 0x0001 0x0001	Generic Text (0x02) 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) Not Supported (0x0) Previous Dostination (0x0003) 00) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Prev_Dest_1) (Prev_Dest_2) (Prev_Dest_3) (Prev_Dest_4)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettem(ItemIndex) Behavior Invalid Invalid	Invalid Invalid settlem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NibritemsInSelection= Remindex 0x0000 0x0001 0x0002 0x0003 0x0004 0x0006	Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Provious Destinations Navigation Root (0x00) 20 Data Type Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003) 00) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	(Favorite_FOI_Cat_4) (Favorite_FOI_Cat_5) ItemDescriptor Previous Destinations (Prev_Dest_1) (Prev_Dest_2) (Prev_Dest_3)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Invalid Invalid Invalid Invalid Invalid	Invalid Invalid settlem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 2 Set Dest to entry 3 Set Dest to entry 4 Set Dest to entry 4 Set Dest to entry 5 Set Dest to entry 5 Set Dest to entry 6
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = NbrItems InSelection= ItemIndex 0x0000 0x00001 0x00001 0x00002 0x00003 0x00004 0x00004	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x00) Data Type Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Provious Destination (0x0003) 000 ActivationEvent Not Supported (0x1)	List Object (0x2) List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Frev_Dest_1) (Frev_Dest_2) (Frev_Dest_4) (Frev_Dest_5)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettlem(ItemIndex) Behavior Irvalid	Invalid Invalid 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
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = ItemIndex 0x0000 0x00001 0x00002 0x00001 0x00003 0x00004 0x00005 0x00006 0x00006 0x00007 0x00008	Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 DataType Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Destination (0x0003) 00) ActivationEvent Not Supported (0x1)	List Object (0x2) List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Frev_Dest_1) (Frev_Dest_2) (Frev_Dest_3) (Frev_Dest_4) (Frev_Dest_5) (Frev_Dest_6) (Frev_Dest_6) (Frev_Dest_8)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getttem(ItemIndex) Behavior Ivvalid	Invalid Invalid Invalid Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 2 Set Dest to entry 3 Set Dest to entry 4 Set Dest to entry 5 Set Dest to entry 7
0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = Northead No	Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Provious Destinations in Navigation Root (0x00) 20 Data Type Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Dostination (0x0003) 00) ActivationEvent Not Supported (0x1)	List Object (0x2) List Object (0x2) List Object (0x2) ons Object Type List Label Entry Object (0x1)	Favorite_POI_Cat_4 Favorite_POI_Cat_5 Favorite_POI_Cat_5	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior hvalid	Invalid Invalid setItem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 3 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 Set Dest to entry 7 Set Dest to entry 8 Set Dest to entry 9 Set Dest to entry 9
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0x0004 0x0005 ListServerID = ActiveListID = ParentList ID = Northern InSelection= ItemIndex 0x0001 0x0001 0x0002 0x0003 0x0004 0x0005 0x0006 0x0007 0x0008 0x0000 0x00014 ListServerID = ActiveListID = ParentList ID = Northern InSelection= ItemIndex 0x0000 0x0001	Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Fevious Destinations Navigation Info. (0x01) Previous Destinations Navigation Root (0x00) DataType Generic Text (0x02) For Inserty (0x002) Generic Text (0x02) For Inserty (0x002) Generic Text (0x02) For Inserty (0x002) Generic Text (0x02) Generic Text (0x02) Ravigation Info. (0x01) Ravigation Info. (0x01) Ravigation Info. (0x01) Ravigation POI (0x40) Ravigation POI (0x40) Ravigation POI (0x40) Ravigation POI (0x40)	Not Supported (0x0) Not Supported (0x0) Previous Dostination (0x0003) 000) ActivationEvent Not Supported (0x1) No Matches Four (0004) or Navigation Root List (0x1) Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) Supported (0x1) Supported (0x0) Not Supported (0x0) Supported (0x1)	List Object (0x2) List Object (0x2) List Copiect (0x2) ons List Label Entry Object (0x1) Dipolar (0x1) Object Type List Label List Object (0x2) Object Type List Label Entry Object (0x1) Entry Object (0x1)	Favorite_POI_Cat_4 Favorite_POI_Cat_5 Favorite_POI_Cat_5	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getttem(ItemIndex) Behavior Invalid	Invalid Invalid Set Deat to entry 1 Set Deat to entry 2 Set Deat to entry 2 Set Deat to entry 2 Set Deat to entry 3 Set Deat to entry 4 Set Deat to entry 4 Set Deat to entry 5 Set Deat to entry 7 Set Deat to entry 7 Set Deat to entry 7 Set Deat to entry 9 Set Deat to entry 9 Set Deat to entry 10 Set Deat to entry 10 Set Deat to entry 20 Set Deat to entry 10 Set Deat to entry 10 Set Deat to entry 20
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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.

			L	BP 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.

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

		Root List CarPlay						
ListServerID =	Phone Info (0x03)					_		
ActiveListID =	Phone Root (0x0000)	Phone Root (0x0000)						
ParentList ID =	Phone Root (0x0000)	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.

		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

		EPG List Root				
ListServerID =	Radio Data Service1 (0x0	07)				
ActiveListID =	Basic EPG Root (0x0000	0)				
ParentListID =	Basic EPG Root (0x0000	0)				
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>

				Radio Data Service2 Root		
ListServerID =	Radio Data Service2 (0x08)			Radio Data Servicez Root		
ActiveListID =	Journaline (0x0000)					
ParentListID =	Journaline (0x0000)					
NorltemsInSelection =						
ItemIndex		ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x00		Not Supported (0x0)	List Label (0x0)	Journaline	Invalid	Invelid
0x01	Radio Journaline Data (0xA2)	Supported (0x1) Not Supported (0x0)	Entry Object (0x1) III ist Object (0x2)	{JournalineListEntry}	refer to HMI specification for list object behavior && enter child list	
	()	(===)	,,, , ,, ,,			
0x32	Radio Journaline Data (0xA2)	Supported (0x1) Not Supported (0x0)	Entry Object (0x1) IlList Object (0x2)	(JournalineListEntry)	refer to HMI specification for list object behavior && enter child list	refer to HMI specification for list entry behavior
	(()	,, (,	,		,
		-		line shall be build up according to the data		
		transmitte	d by the broadcaster. Following structi	ure is used as an example only.		
				Radio Data Service2 Root		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline (0x0000)				i	
ParentListID =	Journaline (0x0000)				i	
NbrltemsInSelection =	4				i	
ItemIndex		ActivationEvent	ObjectType	ItemDescriptor	getitem(itemindex) Behavior	setItem(ItemIndex) Behavior
0x0000	Radio Journaline Data (0xA2)		List Label (0x0)	Deutschlandradio Informationen	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)		List Object (0x2)	News	Goto ActiveListID 0x0001	Invalid
0x0002	Radio Journaline Data (0xA2)	Not Supported (0x0)	List Object (0x2)	Traffic	Goto ActiveListID 0x0002	Invalid
0x0003	Radio Journaline Data (0xA2)		List Object (0x2)	Weather	Goto ActiveListID 0x0003	Invalid
				Radio Data Service2 Nachrichten		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline Root_Item1 (0x000	1)			i	
ParentListID =	Journaline (0x0000)	<i>'</i>			i	
NorltemsInSelection =	1					
ItemIndex		ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Radio Journaline Data (0xA2)		List Label (0x0)	News	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)		List Object (0x2)	Deutschlandfunk News	Goto ActiveListID 0x0004 or 0x0005	Invalid
				Radio Data Service2 Verkehr		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline Root_Item2 (0x000)	2)				
ParentListID =	Journaline (0x0000)	•				
NorltemsInSelection =	1					
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Radio Journaline Data (0xA2)	Not Supported (0x0)	List Label (0x0)	Traffic	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)	Not Supported (0x0)	List Object (0x2)	Current Traffic Jam Information	Goto ActiveListID 0x0006 or 0x0005	Invalid
				Radio Data Service2 Wetter		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline Root_Item3 (0x000	3)				
ParentListID =	Journaline (0x0000)				Į	
NbrltemsInSelection =	1					
ItemIndex		ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000		Not Supported (0x0)	List Label (0x0)	Weather	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)	Not Supported (0x0)	List Object (0x2)	Weather in Germany	Goto ActiveListID 0x0007 or 0x0006	Invalid
			Radio Da	ta Service2 Deutschlandfunk Nachrichten		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline Child1_Item1 (0x00		·			
ParentListID =	Journaline Root_Item1 (0x000	1)				
NorltemsInSelection =	1	·	·	·		
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Radio Journaline Data (0xA2)	Not Supported (0x0)	List Label (0x0)	Deutschlandfunk News	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)	Not Supported (0x0)	Entry Object (0x1)	Arrival of Merkel in Tokio	Invalid	Transmit Journaline Text message
				Empty		
ListServerID =	Radio Data Service2 (0x08)	<u> </u>	·			
ActiveListID =	Empty (0x0005)					
ParentListID =	Parent List (e.g. Journaline Ro	oot_ltem2 (0x0002))				
NbrltemsInSelection =	1					
ItemIndex	DataType	ActivationEvent	ObjectType	ltemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label (0x0)	{List Label} empty	Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	Entry Object (0x1)	ок	Invalid	Invalid

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 (0x0	09)					
ActiveListID =	Advanced EPG Root (0x	0000)					
ParentListID =	Advanced EPG Root (0x	0000)					
NbrltemsInSelection =	NortemsInSelection = 96						
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setIter	n(l 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	.0. 0015
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	

2.11 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

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 39 of 41
v1.7 Jun 16, 2017	The information contained in this document is Proprietary to Ford Motor Company.	1 age 33 01 41

Engineering Specification



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

Scenarios

Normal Usage

A server list is getting updated.

Constraints

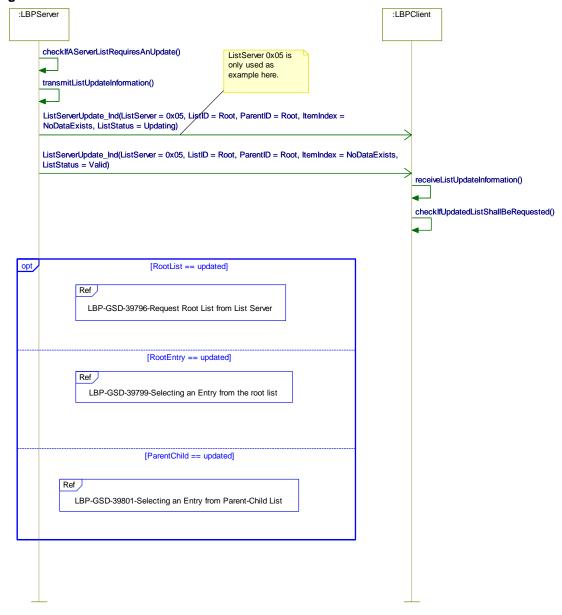
Pre-condition

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	