



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature – List Browser Protocol

APIM Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.8.1
UNCONTROLLED COPY IF PRINTED

Version Date: January 23, 2020

FORD CONFIDENTIAL



Revision History

Structured Data LBP-GREQ-294524-2-Get Item Request EBP-GREQ-294525-2-Audio Source List LBP-GREQ-294526-2-Source Name LBP-GREQ-294526-2-Source Number LBP-GREQ-294527-2-Source Number EBP-GREQ-294528-2-Non Indexing Source EBP-GREQ-294528-2-Non Metadata Source Icon EBP-GREQ-294530-2-Non Metadata Source Icon EBP-GREQ-294531-2-Object State EBP-GREQ-294532-2-Response Time EBP-GREQ-294533-2-Applink Source Unavailable EBP-GREQ-294534-2-No Applink App Selected EBP-GREQ-294535-2-Applink Metadata EBP-GREQ-294535-2-Applink Metadata EBP-GREQ-294539-2-Non Indexing Source with Metadata EBP-GREQ-301568-1-Metadata Icons EBP-GREQ-301569-1-Source Icons EBP-GREQ-301571-1-Navigation Icons EBP-GREQ-301571-1-Navigation Icons EBP-GREQ-301575-1-List Server Generic Media 1 - Media List Structure EBP-GREQ-301576-1-List Server Phone Info-Phone List Structure EBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure EBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure EBP-GREQ-301590-1-List Server Generic List 1 - Traque Valet Mode List Structure	Notes
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LBP-GREQ-294526-2-Source Name Browse LBP-GREQ-294527-2-Source Number paque Browse LBP-GREQ-294528-2-Non Indexing Source propaque Browse LBP-GREQ-294529-2-Unavailable Source propaque Browse LBP-GREQ-294530-2-Non Metadata Source Icon paque Browse LBP-GREQ-294531-2-Object State propaque Browse LBP-GREQ-294531-2-Object State propaque Browse LBP-GREQ-294533-2-Response Time propaque Browse LBP-GREQ-294533-2-Applink Source propaque Browse LBP-GREQ-294534-2-No Applink App Selected propaque Browse LBP-GREQ-294535-2-Applink Metadata propaque Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons propaque LBP-GREQ-301569-1-Source Icons propaque LBP-GREQ-301570-1-Phone Icons propaque LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info propaque Phone List Structure LBP-GREQ-301589-1-List Server Generic List 1 propaque LBP-GREQ-301589-1-List Server Generic List 1 propaque LBP-GREQ-301590-1-List Server Generic List 1 propaque LBP-GREQ-3015890-1-List Server Generic List 1 propaque	- Removed SYNC text and replaced with general name List Server.
LBP-GREQ-294528-2-Non Indexing Source paque Browse LBP-GREQ-294529-2-Unavailable Source Praque Browse LBP-GREQ-294530-2-Non Metadata Source lcon paque Browse LBP-GREQ-294531-2-Object State proaque Browse LBP-GREQ-294531-2-Object State proaque Browse Proaque Browse Proaque Browse Proaque Browse LBP-GREQ-294533-2-Response Time proaque Unavailable Browse LBP-GREQ-294533-2-Applink Source proaque Browse LBP-GREQ-294534-2-No Applink App Selected Browse LBP-GREQ-294535-2-Applink Metadata proaque Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons proaque LBP-GREQ-301570-1-Phone Icons proaque LBP-GREQ-301570-1-Phone Icons proaque LBP-GREQ-301571-1-Navigation Icons proaque LBP-GREQ-301575-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info Phone List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Sync Servi	- Change A22j to H22j.
LBP-GREQ-294528-2-Non Indexing Source rpaque Browse LBP-GREQ-294529-2-Unavailable Source rpaque Browse LBP-GREQ-294530-2-Non Metadata Source Icon rpaque Browse LBP-GREQ-294531-2-Object State rpaque Browse LBP-GREQ-294532-2-Response Time rpaque Browse LBP-GREQ-294533-2-Applink Source rpaque Browse LBP-GREQ-294534-2-No Applink App Selected rpaque Browse LBP-GREQ-294535-2-Applink Metadata rpaque Browse LBP-GREQ-294539-2-Non Indexing Source with repaque Browse LBP-GREQ-301568-1-Metadata Icons rpaque LBP-GREQ-301569-1-Source Icons rpaque LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301571-1-Navigation Icons rpaque LBP-GREQ-301575-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Phone Info - Phone List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Traque Uslet Mode List Structure	- Removed SYNC text and replaced with general name List Server.
LBP-GREQ-294530-2-Non Metadata Source Icon rpaque Browse LBP-GREQ-294531-2-Object State praque Browse LBP-GREQ-294531-2-Object State praque Browse LBP-GREQ-294532-2-Response Time proaque Browse LBP-GREQ-294533-2-Applink Source praque Unavailable Browse LBP-GREQ-294534-2-No Applink App Selected Browse LBP-GREQ-294534-2-No Applink App Selected Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata Praque Browse LBP-GREQ-301568-1-Metadata Icons praque LBP-GREQ-301569-1-Source Icons praque LBP-GREQ-301570-1-Phone Icons praque LBP-GREQ-301570-1-Phone Icons praque LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Removed SYNC text and replaced with general name List Server.
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LBP-GREQ-294531-2-Object State provided Browse Browse LBP-GREQ-294532-2-Response Time produce Browse LBP-GREQ-294533-2-Applink Source produce Unavailable provided Browse LBP-GREQ-294534-2-No Applink App Selected provided Browse LBP-GREQ-294535-2-Applink Metadata produce Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons produce LBP-GREQ-301569-1-Source Icons produce LBP-GREQ-301570-1-Phone Icons produce LBP-GREQ-301571-1-Navigation Icons produce LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Phone Info Phone List Structure LBP-GREQ-301576-1-List Server Navigation Info Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Traque Valet Mode List Structure	- Removed SYNC text and replaced with general name List Server.
LBP-GREQ-294532-2-Response Time rpaque Browse LBP-GREQ-294533-2-Applink Source rpaque Browse LBP-GREQ-294534-2-No Applink App Selected Browse LBP-GREQ-294535-2-Applink Metadata rpaque Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons rpaque LBP-GREQ-301569-1-Source Icons rpaque LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Removed APIM SPSS text from the requirement.
LBP-GREQ-294533-2-Applink Source rpaque Unavailable Browse LBP-GREQ-294534-2-No Applink App Selected rpaque Browse LBP-GREQ-294535-2-Applink Metadata rpaque Browse LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons rpaque LBP-GREQ-301569-1-Source Icons rpaque LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301571-1-Navigation Icons rpaque LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301576-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Tpaque Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - Tpaque Valet Mode List Structure	- Removed APIM text and replaced with general name List Server. Also removed APIM SPSS text.
Unavailable LBP-GREQ-294534-2-No Applink App Selected Browse LBP-GREQ-294535-2-Applink Metadata LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons LBP-GREQ-301569-1-Source Icons LBP-GREQ-301570-1-Phone Icons LBP-GREQ-301571-1-Navigation Icons LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Removed SYNC text and replaced with general name List Server.
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LBP-GREQ-294539-2-Non Indexing Source with Metadata LBP-GREQ-301568-1-Metadata Icons rpaque LBP-GREQ-301569-1-Source Icons rpaque LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301571-1-Navigation Icons rpaque LBP-GREQ-301572-1-List Server Generic Media rpaque 1 - Media List Structure LBP-GREQ-301575-1-List Server Phone Info - Phone List Structure LBP-GREQ-301576-1-List Server Navigation Info rpaque - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Removed SYNC text and replaced with general name List Server.
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LBP-GREQ-301570-1-Phone Icons rpaque LBP-GREQ-301571-1-Navigation Icons rpaque LBP-GREQ-301572-1-List Server Generic Media rpaque 1 - Media List Structure LBP-GREQ-301575-1-List Server Phone Info - rpaque Phone List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - rpaque Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Incorporating A64 document
LBP-GREQ-301571-1-Navigation Icons LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301575-1-List Server Phone Info - phone List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - value Valet Mode List Structure	- Incorporating A64 document
LBP-GREQ-301572-1-List Server Generic Media 1 - Media List Structure LBP-GREQ-301575-1-List Server Phone Info - phone List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Incorporating A64 document
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Phone List Structure LBP-GREQ-301576-1-List Server Navigation Info - Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - rpaque Sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Incorporating A64 document
- Navigation List Structure LBP-GREQ-301589-1-List Server Generic List 1 - sync Services List Structure LBP-GREQ-301590-1-List Server Generic List 1 - rpaque Valet Mode List Structure	- Incorporating A64 document
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Valet Mode List Structure	- Incorporating A64 document
	- Incorporating A64 document
June 13, 2014 1.2	
Structured Data (TcSE ROIN-294540-2) GAL/C	
	new requirement for Carplay/GAL
	new requirement for GAL/CarPlay
·	new requirement for LBP while GAL/CarPlay



December 18, 2015	1.3	
	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	sberg15: Added new method descriptions for prefetch and list update function.
	ROIN-293803-1) 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-ListServerUpdate_Ind	New requirement
	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 and Structured Data (TcSE ROIN-294540-2)	sberg15: added server structure requirements for Basic and Advanced EPG and 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	
	STR-063612/D-List Data Structure (TcSE ROIN-293797-1)	rpaquet2 - removed 019787 replaced by 205695 which was already released previously.
	LBPv2-SR-REQ-128955/D-Item Descriptor Attribute	rpaquet2 - Updated 0xA3 Radio Mixed Presets to include a parameter for PresetState.
		sberg15 - Updated 0xA2 Radio Journaline Data to include a parameter for ChildStatus.
	LBPv2-IIR-REQ-130597/B-LBPClient_LBPServer STR-063619/B-Functional Definition (TcSE	rpaquet2 - removed MD 130388 PrefetchState_St. rpaquet2 - Added Server list update.
	ROIN-293956-1)	ipaquoiz Audou Ocivoi iist apaate.
June 1, 2016	1.5	
Julie 1, 2010	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.
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FILE: LIST BROWSER PROTOCOL APIM SPSS V1.8.1 JAN 23, 2020

Ford

Ford	Ford Motor Company		Subsystem Part Specific Specification Engineering Specification
	STR-063529/C-Requirements (TcSE 294541)	ROIN-	rpaquet2- Added 222052 per Mobile NAV and APIM team request.
	LBP-RÉQ-222052/A-LBP Navigation Mobile Navigation	definition for	rpaquet2 - new requirement for LBP while Mobile NAV active.
February 17, 2017	1.6		
	LBPv2-SR-REQ-128954/C-Avaliable Servers+	List	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-REQ-130389/B-ListServe		sberg15: corrected typo in ListServer literal All decription field; Added value 0xFFFF All Lists to parameter ListID.
	STR-063618/C-Navigating Devices a Servers (TcSE ROIN-293805-1)	and List	rpaquet2 - Added Static List Usage requirement needed for Considerate Prompts
	LBP-SR-REQ-250149/A-Static List U		rpaquet2: initial release
	LBP-FUR-REQ-019741/B-Unavailab (TcSE ROIN-294529-2)	le Source	rpaquet2 - Added note to indicate response is for source internal to the responder.
June 16, 2017	1.7		
	LBP-REQ-089676/B-LBP Media defi GAL/CarPlay.	nition for	rpaquet2 - Update requirement per Projection mode owners
January 23, 2020	1.8		
	LBPv2-SR-REQ-128955/E-Item Des Attribute+	criptor	sberg15: added 0xA5 Radio Mixed Station item descriptor
	LBPv2-SR-REQ-128955/F-Item Des Attribute+	criptor	sberg15: Updated 0xA5 Radio Mixed Station Item Descriptor with parameters for PI-Code, SCIS, SID and ECC.
	LBPv2-SR-REQ-128955/G-Item Des Attribute	•	sberg15: Added parameter TPFlag to Item Descriptor 0xA5;
	LBPv2-SR-REQ-128954/E-Avaliable		sberg15: Added value 0x0C Radio Data Service 4 for Mixed Station List
	LBPv2-MD-REQ-130601/B-ItemInfo		asimukhi: no content change. Updated Logical-Physical mapping
	LBPv2-MD-REQ-130602/B-ItemInfo_ LBPv2-MD-REQ-130389/C-	_Ksp	asimukhi: no content change. Updated Logical-Physical mapping
	ListServerUpdate_Ind		asimukhi: no content change. Updated Logical-Physical mapping
	LBP-REQ-019756/B-List Server Ger - Media List Structure (TcSE ROIN-3		rpaquet2 - Removed the Non Indexing device sub menu as you can only do a set for Non Indexing devices. Also removed Simialr music from Indexing device list as this was never used.
January 23, 2020	1.8.1		
	LBP-REQ-019756/C-List Server Ger - Media List Structure (TcSE ROIN-3		rpaquet2 - Updated to clarify you can only go to list 1 as list 2 for non indexing device was removed.



Table of Contents

R	EVISION H	ISTORY	2
1	ARCHI ⁻	TECTURAL DESIGN	7
	1.1 L	.BP-SV-REQ-019803/A-Static View (TcSE ROIN-40393-1)	7
	1.2 L	BP-CLD-REQ-019804/A-List Browser Client (TcSE ROIN-159174-1)	8
		BP-CLD-REQ-019805/A-List Browser Server (TcSE ROIN-159175-1)	
		ist Data Structure	8
	1.4.1	LBP-SR-REQ-019800/A-List Data Structure (TcSE ROIN-177591-1)	
	1.4.2 1.4.3	LBP-SR-REQ-019780/A-Item Index Attribute (TcSE ROIN-40421-1)	
	1.4.4	LBP-SR-REQ-019801/A-Object State Attribute (TcSE ROIN-177707-1)	9
	1.4.5	LBP-SR-REQ-019781/A-Data Type Attribute (TcSE ROIN-40318-2)	
	1.4.6 1.4.7	LBPv2-SR-REQ-128955/G-Item Descriptor Attribute	
	1.5 L	ist Hierarchy	12
	1.5.1	Root List	12
	1.5.2 1.5.3	Parent-Child Lists and List Entries	
	1.5.3	LBP-SR-REQ-019788/A-Root Index (TcSE ROIN-40422-2)	
	1.5.5	LBPv2-SR-REQ-128954/E-Avaliable List Servers	
		nterface Requirements	14
	1.6.1 1.6.2	LBPv2-IIR-REQ-130597/B-LBPClient_LBPServer	
	_		
	1.7 N 1.7.1	Vavigating Devices and List Servers	
	1.7.2	LBP-SR-REQ-019790/A-Selecting List Entry (TcSE ROIN-40732-2)	23
	1.7.3 1.7.4	LBP-SR-REQ-019791/A-Tracking (TcSE ROIN-41670-1)	23
	1.7.4	LBP-SR-REQ-019785/A-Label of List (TcSE ROIN-40317-2)	24
	1.7.6	LBP-SR-REQ-019795/A-Client requests invalid parent-child list (TcSE ROIN-31400-1)	24
	1.7.7 1.7.8	LBP-SR-REQ-019796/A-Client selects invalid entry (TcSE ROIN-31407-1)LBP-SR-REQ-019797/A-Client selects invalid parent-child list (TcSE ROIN-31414-1)	24
	1.7.9	LBP-SR-REQ-019798/A-SetItem - Server Response (TcSE ROIN-160332-1)	24
	1.7.10		
	1.7.11	LBP-SR-REQ-250149/A-Static List Usage	24
2	FUNCT	IONAL DEFINITION	25
	2.1 L	BP-FUN-REQ-019707/A-Request Root List (TcSE ROIN-293807-1)	
	2.1.1 2.1.2	Use CasesWhite Box View	
			_
	2.2 L 2.2.1	BP-FUN-REQ-019710/A-Browse a parent List from Root List (TcSE ROIN-293810-1) Use Cases	
	2.2.2	White Box View	
	2.3 L	BP-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	
	2.4 L 2.4.1	BP-FUN-REQ-019716/A-Browsing Child List from Parent List (TcSE ROIN-293816-1) Use Cases	
	2.4.2	White Box View	

Subsystem Part Specific Specification Engineering Specification

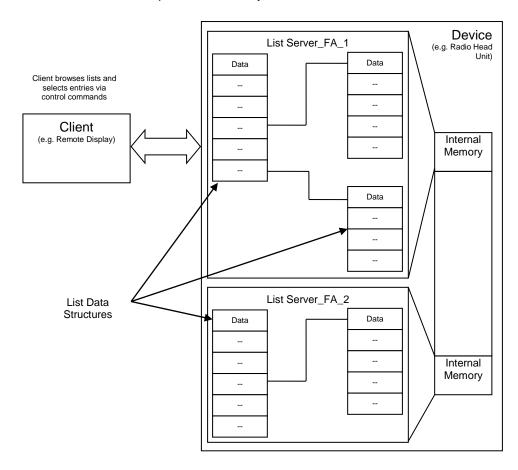
2.5 LBP-FUN-REQ-019719/A-Selecting and Entry from a parent/Child List (TcSE ROIN-293819-1)	28
2.5.1 Use Cases	
2.5.2 White Box View	28
2.6 LBP-FUN-REQ-019722/A-Traversing up the Hierarchy from child to parent list (TcSE ROIN-293822-1)	
2.6.1 Use Cases	
2.6.2 White Box View	29
2.7 LBP-FUN-REQ-019725/A-Traversing up the Hierarchy from Parent to Root (TcSE ROIN-293825-1)	30
2.7.1 Use Cases	30
2.7.2 White Box View	30
2.8 LBP-FUN-REQ-019728/A-Browsing down a list (TcSE ROIN-293828-1)	31
2.8.1 Use Cases	31
2.8.2 White Box View	31
2.9 LBP-FUN-REQ-019731/A-Browsing up a list (TcSE ROIN-293831-1)	32
2.9.1 Use Cases	32
2.9.2 White Box View	32
2.10 LBP-FUN-REQ-019734/E-List Browser Icon and Structured Data (TcSE ROIN-294540-2)	33
2.10.1 Requirements	
2.11 LBP-FUN-REQ-130789/A-Server list update	41
2.11.1 Use Cases	
2.11.2 White Box View	
3 APPENDIX: REFERENCE DOCUMENTS	43



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.

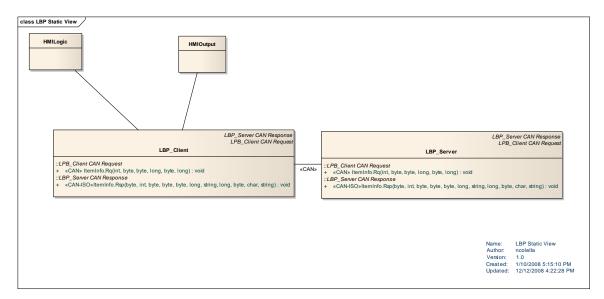


This primary section serves to define the underlining strategy of the list browser protocol. The actual usage of the strategy will be defined in other Functional Area Specifications (FAS) with references back to this primary section. The following subsections shall provide further descriptions of the 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/G-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	Item Descriptor	Descriptor Length
	Type	·	
0x00	General		
	Reserved		
0x01	General		
	Reserved		
0x02	Generic	{Generic Text}	25 characters + EOS
	Text		
	General		
	Reserved		
0x1F	General		
	Reserved		
0x20	Media	{SourceIcon}{MediaSourceName}	{\$0-\$FF represents
	Туре		Source icon, \$0 = Invalid
		(0.11)(0.11)	}{25 characters + EOS}
0x21	Metadata	{CatIcon}{CatName}	{\$0-\$FF represents
	Category		Category icon, \$0 =
			Invalid}{25 characters + EOS}
	Media		E03}
•••	Reserved		
0x3F	Media		
OXOI	Reserved		
0x40	Navigation	{Direction}{Distance}{POIName}	{\$0-\$FF Represents
	POI		direction icon, \$0 =
			Invalid }{8 characters +
			EOS}{25 characters +
			EOS) Info: POI name
			could also be a
			destination name.

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V1.8.1 JAN 23, 2020

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Page 9 of 43



	Novigation		T
•••	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 Phone	{ CallTypeIcon }{CatName}	{\$0-\$FF Represents call type icon, \$0 = Invalid }{25 characters + EOS}
	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 = Available, \$0 = Invalid}
0xA3	Radio Mixed Presets	{PresetNumber}{PresetState}{RadioBand}{Frequency}{HD Number}{StationNameShort}{StationNameLong}	{\$1-\$1E, \$0 = Invalid}{\$0 = Empty, \$1 = Available} {\$1 = AM, \$2 = FM, \$3 = DAB, \$4 = SDARS, \$0 = Invalid} {\$0-\$FFFF Represents

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			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 =
			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}
0xA5	Radio Mixed Station	{SourceIcon}{StationNameLong}{StationNameShort}{PI-Code}{SCID}{SID}{ECC}{TPFlag}	{\$0-\$FF represents Source icon, \$0 = Invalid}{StationNameLong = DAB: ServiceName = 16 character long name max plus EOS; AMFM and SDARS = EOS}{StationNameShort = 9 characters max + EOS, RDS Markets: PSName = 8 characters max}{\$0-\$FFF represents the PI-Code, \$0 = Invalid}{\$0-\$FFF represents the SCID, \$0 = Invalid}{\$0-\$FFF represents the SID, \$0 = Invalid}{\$0-\$FF represents the ECC, \$0 = Invalid}{\$0 = Invalid, \$1 = TRUE, \$2 = FALSE}

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	Radio	
	Reserved	
0xAF	Radio	
	Station	
	Reserved	

Note: A list server can contain multiple data types.

1.4.7 LBPv2-SR-REQ-205695/A-Activation Event Attribute

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

1.5 List Hierarchy

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

1.5.1 Root List

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

1.5.2 Parent-Child Lists and List Entries

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

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

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

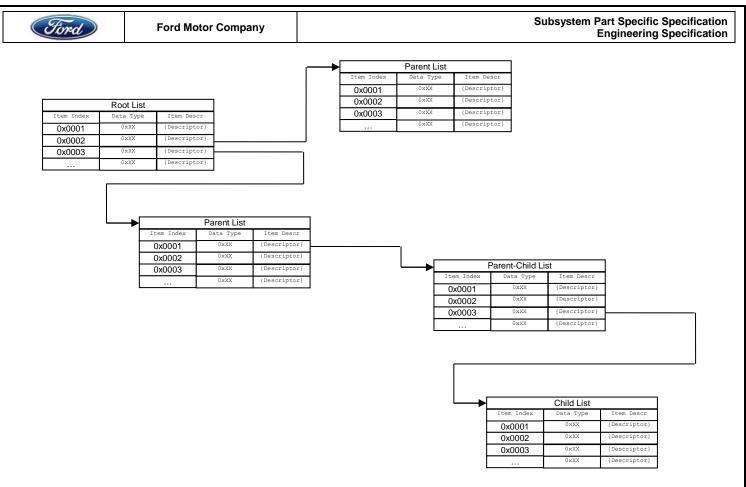


Figure 1 – Lists-Entry Hierarchy

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

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

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

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

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

The following are the available addressable list servers:

List Server ID	Name	Comment	
0x01	Navigation Info	Used for browsing Nav POIs,	
		previous dest, etc.	
0x02	Generic Media 1	Used for browsing media data (e.g.	
		Artist names, titles, etc.)	
0x03	Phone Info	Used for browsing phone book, 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.	
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0x08	Radio Data Service2	Used to transmit DAB data service Journaline.
0x09	Radio Data Service3	Used to transmit DAB data service Advanced EPG.
0x0A	Radio 2	Used for browsing radio Source information (e.g. AM,FM,SAT,DAB,CD.) started from Rear Display.
0x0B	Considerate Prompt 1	Static List used to transmit POI list related to Considerate Prompts
0x0C	Radio Data Service4	Used to transmit a mixed station list to the client.
0x0D – 0xFF	Reserved	

1.6 Interface Requirements

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

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

Message Type: Request

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

Name	Literals	Value	Description
OpCode	-	-	Parameter OpCode is used to
			distinguish between requesting list
			data or select an executable item.
	Inactive	0x0	
	GetItemInfo_Rq	0x1	Value GetItemInfo_Rq is used to
			request list data from a list object.
	SetItemInfo_Rq	0x2	Value SetItemInfo_rq is used by
			the Client to activate a selected
			item index during browsing of the
			device. The value shall only be
			used on items which support an
			ActivationEvent. Parameter
			NbrOfItems and StartItemInd shall
			be set to 0x0 in this case.
	Reserved	0x3	
SetListServ	-	-	Parameter setListServ is used to
			address the requested list server.
	Inactive	0x00	
	ServerID_1	0x01	
		0x02	
	All	0xFF	Value All is used address all
			available list servers.
ActiveListID	-	-	Parameter ActiveListID contains
			the list ID from which the items are
			being selected. This information is

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			g
			provided by the server's response
			method.
	Root	0x0000	metriod.
	List ID1	0x0001	
		0x0001	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
	Treserved	OXITIT	
ItemIndex	_		Parameter ItemIndex contains the
l lioning ox			selected item Index for the
			requested list.
	BrowseActiveListID	0x0000	Value BrowseActiveListID is used if
	2.0007.100202	0,1000	the client is only browsing up/down
			the entries of the active list. In this
			case this value shall be set to
			0x0000 (BrowseActiveListID) which
			indicates to the server to provide
			the items requested for the active
			list.
	EntryIndex_1	0x0001	
	ParentOfActiveListID	0xFFFF	Value ParentOfActiveListID is used
			if the client needs to retrieve the
			parent list of the active list. In this
			case this value shall be set to
			0xFFFF (ParentOfActiveListID).
			This is an indication to the server to
			navigate to the parent list of the
			active list and provide that data as
			requested.
			•
NbrOfItems			Parameter NbrOfItems is used to
			indicate how many items to provide
			in the response message.
	Inactive	0x0	
	1 item	0x1	
	63 items	0x3F	
StartItemInd			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/B-ItemInfo_Rsp

Message Type: Response

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

Name	Literals	Value	Description
RspListServ	-	-	Parameter RspListServ is used to
			indicate which list server is
			providing the response.
	Inactive	0x00	
	ServerID_1	0x01	
	Reserved	0xFF	
	,	1	
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	
		1	
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
T GI GINE ION D			the parent list ID of the current
			ActiveListID.
	Root	0x0000	1,100.10=101121
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
	Reserved	OXITII	
NbrOfltemsRtn	_		Parameter NbrOfItemsRtn is used
NDIOIILEIIISKIII	-	-	to indicate how many items
			provided in the response message
		0x0000	provided in the response message
	0	0x0000 0x0001	
	1	UXUUUT	
		0.45	
	30	0x1E	

FILE: LIST BROWSER PROTOCOL APIM SPSS	
V1.8.1.JAN 23, 2020	



NbrItemsInSelection			Parameter NbrItemsInSelection is
Nonternamoelection			used to indicate the total number of
			all items in the active list id.
	0	0x0000	all items in the active list id.
	1	0x0000	
		000001	
	65535	0xFFFF	
	60000	UXFFFF	
stringItemContent (Array(1 NbrOfItemsRtn) of record (ItemIndex, DataType, ActivationEvent, ObjectType, ObjectState, ItemDescriptor)			
ItemIndex	List Title	0x0000	Parameter ItenIndex is used to
Remindex	List Title	000000	associate an index to each list
			item.
	1	0x0001	itom.
	1	0,0001	
	65535	0xFFFF	
	00000	UXITII	
DataType	Reserved	0x00	
Butarypo	DataTypeID_1	0x01	
	Data Type ID_1	0.01	
	Reserved	0xFF	
	Reserved	UXI I	
ActivationEvent			Parameter ActivationEvent is used
7.00.70.00.			to indicate if a list entry is able to
			be activated or not.
	Not Supported	0x0	
	Supported	0x1	
	Capponica	• • • • • • • • • • • • • • • • • • • •	
ObjectType			Parameter ObjectType is used to
			indicate if the returned list entry is a
			List or Entry Object. List objects
			can contain additional data, entry
			objects can be executed.
	List Label	0x0	<u> </u>
	Entry Object	0x1	
	List Object	0x2	
	,		
ObjectState			The parameter ObjectState is used
1			-
			to indicate if the returned list entry
			to indicate if the returned list entry is the active on the server or not.
	Inactive	0x0	-
	Inactive Active	0x0 0x1	-
			-
ItemDescriptor			-
ItemDescriptor			is the active on the server or not.

For	rd	Ford Motor Company		Subsystem Part Specific Specification Engineering Specification
				fields. Each of these fields can be parsed by the client and used for HMI purposes.
		{De	scriptor Tag}	



Example ItemContent:

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

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

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

Byte 0: Signal identifier

0x76: LBP1_ItemInfo_Rsp

Byte 1: Utilization

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

0x02 Radio_Service2 - SDARS 0x03 Radio_Service3 - DAB

0x11 MP_Media1 - CD

0x12 MP_Media2 – BT Audio Streaming

0x13 MP_Media3 - USB 0x14 MP_Media4 - iPod

0x17 MP_Media7 — Generic Metadata

0x22 Nav_Service2 – Navigation

0x31 MobileCom_Service1 - Mobile Phone

0x74: DataService4 – List Browser Data

Byte 2: Command Execution Status

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

0x2y: Final Result – Information

0x3y: Intermediate Result— Wait

Byte 3: Character Coding

Bit 0-5: Reserved

Bit 6-7: Coding

0x0: Coding Table I

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

0x1: Coding Table II

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

Byte 4: OpCodeRsp:

Bit 0-5: reserved

Bit 6 - 7: OpCodeRsp

0x0: Inactive

0x1: GetItemInfoRsp 0x2: SetItemInfoRsp

0x3: Reserved

Byte 5: RspListServ:

0x00: Inactive 0x01: ServerID_1

...



0xFF: Reserved

Byte 6-7: ActiveListID

0x0000: Root 0x0001: ListID 1 0x0002: ListID_2

0xFFFE:

0xFFFF: Reserved

Byte 8-9: ParentListID

0x0000: Root 0x0001: ListID 1 0x0002: ListID_2

0xFFFE:

0xFFFF: Reserved

Byte 10: NbrOfltemsRtn

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

0xFE: 254

0xFF: Reserved

Byte 11-12: NbrOfltemsInSelection

0x0000: Reserved

0x0001: 0x0002:

0xFFFE: 0xFFFF:

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

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

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

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

0xFFFF

Byte 2: DataType

0x00 0x01

0xFF

Byte 3:

Bit 0 - 1: Reserved Bit 2 - 3: ObjectType 0x0: List Label

> 0x1: Entry List 0x2: ListEntry

Bit 4 - 5: ObjectState 0x0: Inactive

0x1: Active



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

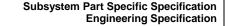
Byte 4 up to Byte Variable: ItemDescriptor {Descriptor Tag} – Refer to descriptor table and DataType.

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

Message Type: Indication

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

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



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

. . .

	EntryIndex65534	0xFFFE	Entry 65534 from parent list is getting updated.
	Reserved	0xFFFF	0 0 1
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.

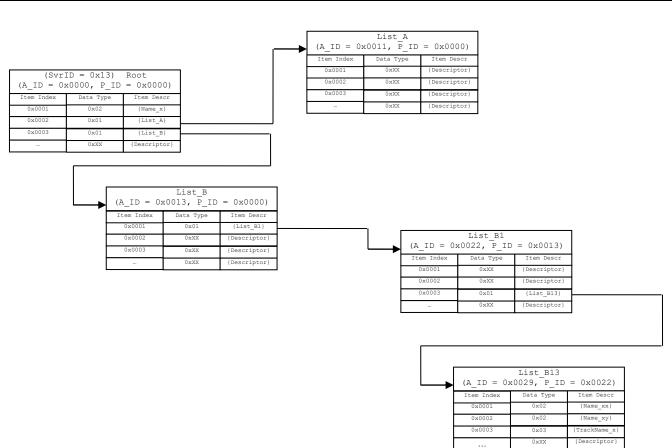
Several methods are provided for navigating the hierarchy and retrieval of information, GetItemInfo.Request(), SetItemInfo.Request(), and GeItemtInfo.Response(). The client utilizes the GetItemInfo.Request() methods for requesting item information and utilizes the SetItemInfo.Request for item activation. 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:

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



2 Functional Definition

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

2.1.1 Use Cases

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

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

2.1.2 White Box View

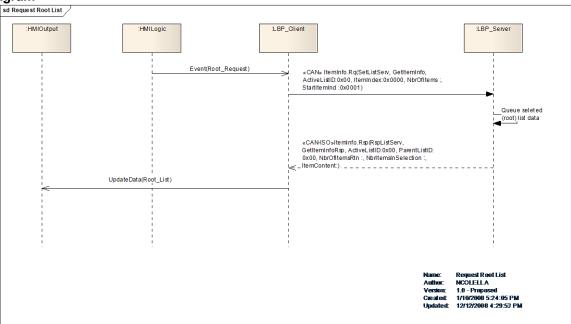
2.1.2.1 White Box Scenarios

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

Linked Elements

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

Sequence Diagram



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



2.2.1 Use Cases

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

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

2.2.2 White Box View

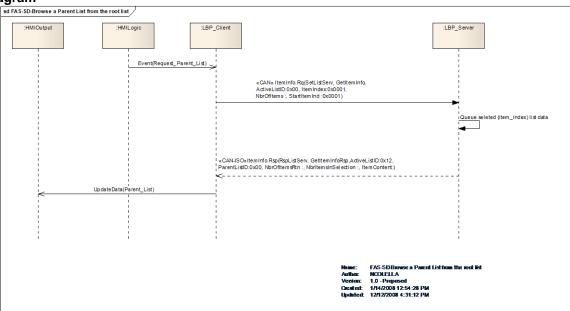
2.2.2.1 White Box Scenarios

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

Linked Elements

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

Sequence Diagram



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

2.3.1 Use Cases

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

Actors	System	
Pre-conditions	Infotainment Network is active.	

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 26 of 43
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	The root list has been obtained from the server.			
	The root list contains selectable entries.			
Scenario	The client selects an entry from the root list.			
Description				
Post-conditions	Server responds with activation of the selected entry.			
List of Exception	N/A			
Use Cases				
Interfaces	G-HMI, Vehicle System Interface			

2.3.2 White Box View

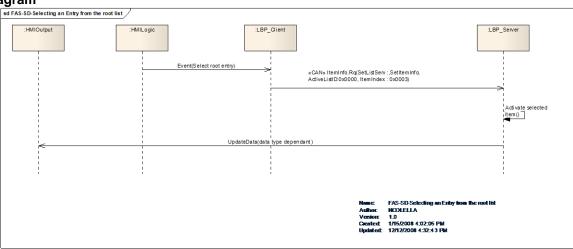
2.3.2.1 White Box Scenarios

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

Linked Elements

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

Sequence Diagram



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

2.4.1 Use Cases

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

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



2.4.2 White Box View

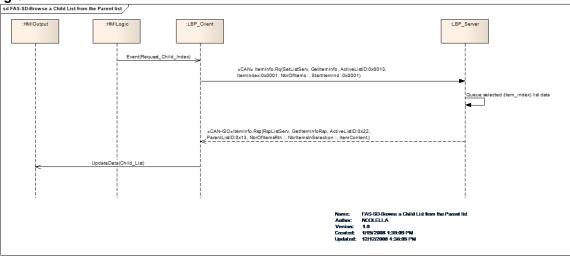
2.4.2.1 White Box Scenarios

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

Linked Elements

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

Sequence Diagram



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

2.5.1 Use Cases

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

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

2.5.2 White Box View

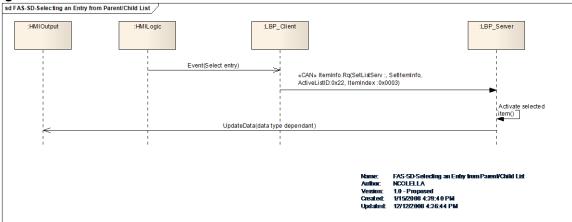
2.5.2.1 White Box Scenarios

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

Linked Elements

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





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

2.6.1 Use Cases

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

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

2.6.2 White Box View

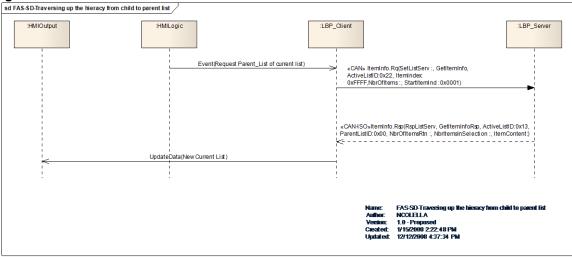
2.6.2.1 White Box Scenarios

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

Linked Elements

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





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

2.7.1 Use Cases

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

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

2.7.2 White Box View

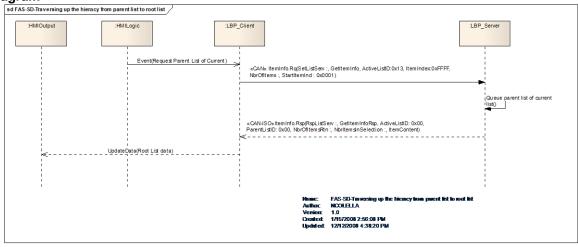
2.7.2.1 White Box Scenarios

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

Linked Elements

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





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

2.8.1 Use Cases

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

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

2.8.2 White Box View

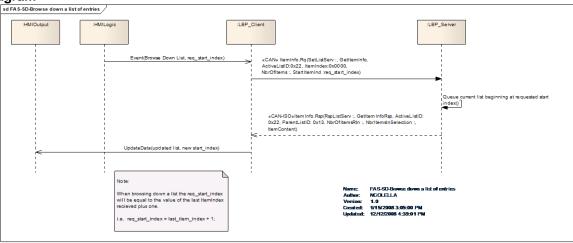
2.8.2.1 White Box Scenarios

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

Linked Elements

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





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

2.9.1 Use Cases

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

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

2.9.2 White Box View

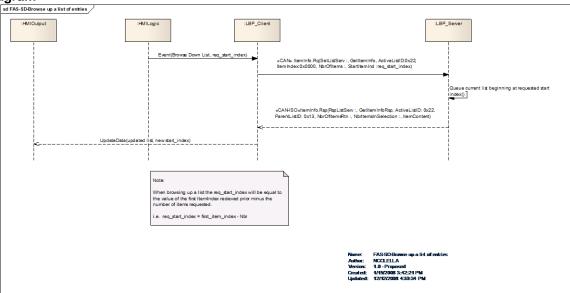
2.9.2.1 White Box Scenarios

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

Linked Elements

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





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

2.10.1 Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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 Source	10	0x0A	Yes	Non Indexing Source, only used in 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		

No

Reserved for future use.

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

0x19 ... 0xFF

Reserved

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

2.10.1.20 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 35 of 43
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Reserved	0x080xFD
Blank	0xFE
Unknown	0xFF

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

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

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

ListServerID =	Generic Media1 (0x02)	Media Root Li				
ActiveListID =	Media Root (0x0000)				1	
ParentList ID =	Media Root (0x0000)		+			
NbrItemsInSelection=	20				†	
ItemIndex	DataType DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)		List Label	{Media Root List}	Invalid	Invalid
0x0000	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 1
0x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 2
0x0003	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 3
0x0000	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 4
5X0001	media Type (exter)	Touppoiled (ext.)	List Object (OAL)	(Course learly (Course mediated Hamle)	Coto Notife Elect ID execut	Cot Course to Littly 1
0x0014	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{Source Icon} {Source #:Source Name}	Invalid	Set Source to Entry 2
<i>M</i> 0011	media Type (exter)	Touppoiled (ext.)	Ziniy Object (Oxi)	(Course ison) (Course in Course Hame)	intano	Non Indexing Device
Example 1:						can only use settlen
0x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{USB lcon} 1:USB	Goto Active List ID 0x0001	Set Source to Entry 1
0x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	(USB Icon) 2:USB	Goto Active List ID 0x0001	Set Source to Entry 2
0x0001 0x0002 0x0003 0x0004	Media Type (0x20) Media Type (0x20) Media Type (0x20) Media Type (0x20)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	{0x07} 2:iHeart Radio {0x07} 3:CarPlay	invalid invalid invalid invalid	Set Source to Entry 1 Set Source to Entry 2 Set Source to Entry 3 Set Source to Entry 4
Example: Now Playir	ng (Applink Source select	ed)				
Source Info: {device nar Metadata1: {mainField	1}					
Metadata1: {mainField Metadata2: {mainField :	1} 2}					
Metadata1: {mainField	1} 2}					
Metadata1: {mainField Wetadata2: {mainField: Metadata Icon 1 and 2: Note: Fields described	1) 2) 0x17 (No Icon) in examples are referenced	I in S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St		
Metadata1: {mainField Metadata2: {mainField : Metadata Icon 1 and 2: Note: Fields described ListServerID =	1) 2) 2 0x17 (No Icon) in examples are referenced Generic Media1 (0x02)	Indexing Device Fe		SID-79-MediaInformation_St	1	
Metadata1: {mainField Metadata2: {mainField Metadata2: {mainField Metadata Lon 1 Land 2: Mote: Fields described ListServerID = ActiveListID =	1) 2) 0x17 (No Icon) in examples are referenced Generic Media1 (0x02) Indexable Features (0x0	Indexing Device Fe		SID-79-MediaInformation_St		
Metadata1: {mainField Metadata2: {mainField Metadata Con 1 and 2: Mote: Fields described Metadata Mote: Fields described Metadata Mote: Fields described Mote: Fields Mote: Fie	1) 2) 0x17 (No Icon) in examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000)	Indexing Device Fe		SID-79-MediaInformation_St		
Metadata1: (mainField Metadata2: (mainField Metadata Icon 1 and 2: Note: Fields described ListServerID = ActiveListID = ParentList ID = NortemsInSelection =	1) 2) 2) 2) 2) 2) 2) 2) 20x17 (No Icon) 2) 30x17 (No Icon) 30x17 (No Icon) 30x17 (No Icon) 30x17 (No Icon) 4 Generic Media1 (0x02) 1ndexable Features (0x0 4 Media Root (0x0000) 4	Indexing Device Fe	atures	_	and lines (the substant of the	Tantham (Bakerine
Metadata1: (mainField Metadata2: (mainField) Metadata Icon 1 and 2: Note: Fields described ListServerID = ActiveListID = ParentList ID = NortemsInSelection = RemIndex	1) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 20x17 (No lcon) 2) 30x17 (No lcon) 30x17 (No lcon) 30x17 (No lcon) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Indexing Device Fe	atures Object Type	ltemDescriptor	getitem(ItemIndex) Behavior	
Metadata1: {mainField Metadata2: {mainField Metadata2: {mainField Metadata Lon 1 and 2: Mote: Fields described ListServerID = ActiveListID = ParentList ID = NorltemsInSelection = Memindex Dx00000	1) 2) 0x17 (No Icon) in examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02)	Indexing Device Fe	Object Type List Label	ItemDescriptor {Device Name}	Invalid	Invalid
Metadata1: (mainField Metadata2: (mainField Metadata Icon 1 and 2: Metadata Icon 1 and 2: Note: Fields described ListServerID = ActiveListID = ParentList ID = NbritemsInSelection= ItemIndex 0x0000 0x00000	1) 2) 2) 2) 2) 2) 2) 2) 2) 2) 20 217 (No Icon) 21 318 examples are referenced Generic Media1 (0x02) 318 Indexable Features (0x0 4 Media Root (0x0000) 4 DataType 32 33 34 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Indexing Device Fe 2001) ActivationEvent Not Supported (0x0) Supported (0x1)	Object Type List Label Entry Object (0x1)	ItemDescriptor {Device Name} Now Playing	Invalid Invalid	Invalid Play Entry 1
Metadata1: {mainField Metadata2: {mainField Metadata2: {mainField Metadata con 1 and 2: Mote: Fields described Metadata Con 1 and 2: Mote: Fields described ListServerID = ActiveListID = ParentList ID = NorltemsInSelection = ItemIndex Dx00000	1) 2) 0x17 (No Icon) in examples are referenced Generic Media1 (0x02) Indexable Features (0x0 Media Root (0x0000) 4 DataType Generic Text (0x02)	Indexing Device Fe	Object Type List Label	ItemDescriptor [Device Name] Now Playing Play All	Invalid	

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Generic Text (0x02)

Not Supported (0x0) List Label

0x0000

Invalid

Invalid



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

ListServerID =	Phone Info (0x03)	Phone Root I	ist			
ActiveListID =	Phone Root (0x0000)					
ParentList ID = NbrItemsInSelection =	Phone Root (0x0000) 5					
itemindex 0x0000	DataType Generic Text (0x02)	ActivationEvent	Object Type List Label	ItemDescriptor Phone	getItem(ItemIndex) Behavior Invalid	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2)	Quick Dial	Goto ActiveListID 0x0001 or 0x0006	Invalid
0x0002 0x0003	Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2) List Object (0x2)	All Calls Incoming Calls	Goto ActiveListID 0x0002 or 0x0006 Goto ActiveListID 0x0003 or 0x0006	Invalid Invalid
x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Outgoing Calls	Goto ActiveListID 0x0004 or 0x0006	Invalid
x0005	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Missed Calls	Goto ActiveListID 0x0005 or 0x0006	Invalid
	DI 17 (0.00)	Quick Dial			ı	
istServerID = ActiveListID =	Phone Info (0x03) Quick Dial (0x0001)					
ParentList ID = br/tems/nSelection =	Phone Root (0x0000)					
ItemIndex	DataType DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000 x0001	Generic Text (0x02) Phone CallerID (0x60)	Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	Quick Dial {null}{PhoneTypelcon}{CallerID}	Invalid Invalid	Invalid Place Call to entry 1
x0002	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 2
x0003 x0004	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 3 Place Call to entry 4
x0005	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 5
x0006 x0007	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID} {null}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 6 Place Call to entry 7
x0008	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 8
x0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 9
istServerID =	Dhono Info (0v02)	All Calls				
ctiveListID =	Phone Info (0x03) All Calls (0x0002)					
arentList ID = britemsInSelection =	Phone Root(0x0000)				-	
ItemIndex	DataType	ActivationEvent		ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000 x0001	Generic Text (0x02) Phone CallerID (0x60)	Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	All Calls {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Invalid Place Call to entry 1
x0002	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 2
x0003 x0004	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
x0005	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 5
x0006 x0007	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 6 Place Call to entry 7
x0008 x0009	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) 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
x0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 10
x0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
	()			(Carry Ferrange Carry		,,
.istServerID =	Phone Info (0x03)	Incoming Ca	lls			
ActiveListID =	Incoming Calls (0x0003)					
ParentList ID = brltemsInSelection =	Phone Root (0x0000) 25					
k0000	DataType Generic Text (0x02)	Not Supported (0x0)		ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
k0001			List Label	Incoming Calls	Invalid	Invalid
	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 1
x0002	Phone CallerID (0x60) Phone CallerID (0x60) Phone CallerID (0x60)			Incoming Calls {CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	
x0002 x0003 x0004	Phone CallerID (0x60) Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	Incoming Calls [CallTypelcon]{PhoneTypelcon}{CallerID} [CallTypelcon]{PhoneTypelcon}{CallerID} [CallTypelcon]{PhoneTypelcon}{CallerID} [CallTypelcon]{PhoneTypelcon}{CallerID}	Invalid Invalid Invalid Invalid Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4
x0002 x0003 x0004 x0005 x0006	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID) (CallTypelcon){PhoneTypelcon}(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6
x0002 x0003 x0004 x0005 x0006 x0007	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID] [CallTypebcon]/PhoneTypebcon]/CallerID]	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7
ix0002 ix0003 ix0004 ix0005 ix0006 ix0007 ix0008 ix0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calis (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 8
ix0002 ix0003 ix0004 ix0005 ix0006 ix0007 ix0008 ix0007 ix0008 ix0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypeLocn)(PhoneTypeLocn)(CallertD)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 9 Place Call to entry 9
ix0002 ix0003 ix0004 ix0005 ix0006 ix0007 ix0008 ix0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calis (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 8
xx0002 xx0003 xx0004 xx0005 xx0006 xx0007 xx0008 xx0009 xx0000A	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypeLocn)(PhoneTypeLocn)(CallertD)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 9 Place Call to entry 9
xx0002 xx0003 xx0004 xx0005 xx0006 xx0006 xx0007 xx0008 xx0009 xx0009 xx0019 istServerID = kctiveLstID =	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypeLocn)(PhoneTypeLocn)(CallertD)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 9 Place Call to entry 9
xX0002 xX0003 xX0004 xX0004 xX0006 xX0007 xX0008 xX0009 xX0009 xX0019 xX0019 xX0110 = ctivet.ist10 = ctivet.ist10 =	Phone Callerfü (0x60) Phone Info (0x03) Outgoing Calls (0x004) Phone Rod(0x000)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypeLocn)(PhoneTypeLocn)(CallertD)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 9 Place Call to entry 9
x0002 x0004 x0004 x0006 x0006 x0007 x0008 x0009 x0009 x0009 x0019 istSenerID = civeListID = arentList ID = britemisSelection = lemindex	Phone Callerfü (0x60) Phone Rodigra (0x60) Phone Rodigra (0x60) Phone Rodi(0x000) 25 DataType	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10 Place Call to
x0002 x0004 x0004 x0005 x0006 x0007 x0008 x0009 x0009 x0009 x0019 istServerID = ctiveListID = arentList ID = britemis InSelection = tembreas Themselection = tembreas X0000 x0000	Phone Callerfü (0x60) Phone Rod(0x00) Phone Rod(0x000) Phone Rod(0x000) Phone Rod(0x000) SalaType Generic Toxt (0x2)	Supported (0x1) Outgoing Cs	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PonerTypelcon)(CallerID) (CallTypelcon)(PonerTypelcon)(CallerID) (CallTypelcon)(PhonerTypelcon)(CallerID) CallTypelcon)(PhonerTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
xx0002 xx0004 xx0004 xx0005 xx0006 xx0007 xx0008 xx0009 xx0009 xx0019 listServerID = cchveListID = arentList ID = britems in Selection = Remindex xx0001 xx0001	Phone Callerfü (0x60) Phone Rod(0x000) Ze SataType Generic Toxt (0x2) Phone Callerfü (0x60)	Supported (0x1) Outgoing Cs ActivationEvent Not Supported (0x0) Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 25
x0002 x0003 x0004 x0005 x0006 x0006 x0006 x0006 x0009 x0009 x0019 istServerID = ctiveListID = arentList ID = britemishSection = Kemindex x0000 x0001 x0001	Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 2 Place Call to entry 2 Place Call to entry 1
x0002 x0004 x0004 x0005 x0006 x0006 x0006 x0008 x0008 x0009 istServerID = ctiveListID = arentList ID = lemindex x0000 x0000 x00000 x00000 x00000 x00000 x00000	Prione Callerfü (0x60) Prione Rodick (0x03) Outgoing Calle (0x000) 25 Data Type Genenic Text (0x2) Prione Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) IE List Label Entry Object (0x1) IE Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Piace Call to entry 1 Piace Call to entry 2 Piace Call to entry 2 Piace Call to entry 3 Piace Call to entry 3 Piace Call to entry 4 Piace Call to entry 5 Piace Call to entry 5 Piace Call to entry 7 Piace Call to entry 7 Piace Call to entry 9 Piace Call to entry 9 Piace Call to entry 9 Piace Call to entry 10 Piace Call to entry 1
x0002 x0004 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x000A x0019 istServerID = ctiveLisID = arantList ID = britemsInSelection = lemhdex x0000 x0000 x0000 x0000 x0000 x0000 x0000 x0000	Prince Callerfü (0x60) Phone Callerfü (0x60) Phone Rod(0x60) Phone Rod(0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Piace Call to entry 1 Piace Call to entry 2 Piace Call to entry 2 Piace Call to entry 3 Piace Call to entry 3 Piace Call to entry 4 Piace Call to entry 5 Piace Call to entry 5 Piace Call to entry 7 Piace Call to entry 7 Piace Call to entry 9 Piace Call to entry 10 Piace Call to entry 20 Piace Call to entry 20 Piace Call to entry 20 Piace Call to
xx0002 xx0004 xx0004 xx0005 xx0006 xx0007 xx0008 xx0007 xx0009 xx0019 istServerID = ctiveListID = arentList ID = britems in Selection = Remindex xx0001	Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 10 Place Call to entry 2 Place Call to entry 1 Place Call to entry 2 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6
x0002 x0004 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x000A x0019 istServerID = ctiveListID = arantList ID = briteminSelection = lemindex x0000 x0000 x0000 x0000 x0000 x0000 x0000 x0000 x0006 x0007 x0008	Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 10 Place Call to entry 12 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 6 Place Call to entry 8
x0002 x0004 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x000A x0019 istServerID = ctiveListID = arrantList ID = britemsInSelection = lemhdex x0000	Prince Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10 Place Call to
xx0002 xx0004 xx0004 xx0005 xx0006 xx0006 xx0007 xx0008 xx0009 xx000A xx0019 istServerID = ctriveListID = arrantList ID = lemindex xx0009 xx0000 xx0000 xx00000 xx00000 xx00000 xx00000 xx000000	Phone Callerfü (0x60) Phone Rod(0x60) Phone Rod(0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10
x0002 x0004 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x000A x0019 istServerID = ctiveListID = arantList ID = britemsinSelection = lemhdex x0000 x0001	Prince Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10
x0002 x0004 x0004 x0005 x0006 x0007 x0008 x0009 x0009 x00019 istServerID = ctiveListID = arentList ID = britansinSelection = templox x0001	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10
(0002 (0003 (0004 (0005 (0006 (0007 (0008 (0009	Prince Callerfü (0x60) Phone Roal (0x60) Phone Roal (0x60) Phone Roal (0x60) Phone Roal (0x600)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 19 Place Call to entry 25
(0002 (0003 (0004 (0004 (0005 (0006 (0007 (0008 (0009 (0007 (0008 (0009 (0004 (0019 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008	Prince Callerfü (0x60) Phone Rout (0x000) Phone Rout (0x000) Phone Rout (0x0000) Phone Rout (0x0000) Phone Rout (0x0000)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place Call to entry 25
(0002 (0003 (0004 (0005 (0006 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0007 (0008 (0008 (0007 (0008 (008 (008 (008 (008 (008 (008 (008 (008 (008 (008 (008 (008 (008 (Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10
\(\cdot\) 0002 \(\cdot\) 00004 \(\cdot\) 00004 \(\cdot\) 00006 \(\cdot\) 00006 \(\cdot\) 00008 \(\cdot\) 00009 \(\cdot\) 00000 \(\cdot\) 00004 \(\cdot\) 00004 \(\cdot\) 00004 \(\cdot\) 00000 \(\cdot\) 00000 \(\cdot\) 00000 \(\cdot\) 00000 \(\cdot\) 000000 \(\cdot\) 000000 \(\cdot\) 000000 \(\cdot\) 000000 \(\cdot\) 000000000000000000000000000000000000	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10 Place Call to entry 11
(0002 (0003 (0004 (0004 (0005 (0006 (0007 (0008 (0009 (00008 (00008 (00008 (0009 (0008 (0009 (0008 (0009 (0008 (0009 (0008 (0009 (0008 (008	Prince Callerfü (0x60) Phone Rod (0x0000) Phone Rod (0x0000) Phone Rod (0x0000) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 12 Place Call to entry 12 Place Call to entry 1 Place Call to entry 9 Place Call to entry 10
x0002 x0004 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x0009 x0009 x00019 istServerID = ctiveListID = britemisInSelection= leading to the color of th	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 25 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 9
\(\cdot\) 00002 \(\cdot\) 00004 \(\cdot\) 00004 \(\cdot\) 00006 \(\cdot\) 00006 \(\cdot\) 00008 \(\cdot\) 00009 \(\cdot\) 00000 \(\cdot\) 00004	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 10 Place Call to entry 12 Place Call to entry 14 Place Call to entry 19 Place Call to entry 2 Place Call to entry 19 Place Call to entry 2
xx0002 xx0004 xx0005 xx0006 xx0006 xx0007 xx0008 xx0009 xx000A xx0019 istServerID = citreeListID = marantList ID = marantList ID = low for the marantList ID = marantList ID = marantList ID = marantList ID = low for the marantL	Prince Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9
xx0002 xx0004 xx0005 xx0006 xx0006 xx0006 xx0007 xx0008 xx0009 xx000A xx0019 istServerID = citiveListID = marantList ID = mara	Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Prince Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9
xx0002 xx0003 xx0004 xx0005 xx0006 xx0006 xx0007 xx0008 xx0009 xx0009 xx0009 xx0009 xx00019 istServerID = letiveListID = referentList ID	Prione Callert (0x60) Phone Callert (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9
xx0002 xx0004 xx0005 xx0006 xx0006 xx0006 xx0007 xx0008 xx0009 xx000A xx0019 istServerID = citiveListID = mareniList ID = mare	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9
xx0002 xx0003 xx0004 xx0005 xx0006 xx0006 xx0007 xx0008 xx0009 xx000A xx0019 istServerID = ctriveListID = membrase immediate in the control of the control	Prione Callert (0x60) Phone Callert (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Prince Callerfü (0x60) Phone Callerfü (0x60)	Supported (0x1)	Entry Object (0x1)	Incoming Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	Invalid	Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9 Place Call to entry 1 Place Call to entry 9



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

_istServerID =	Navigation Info (0x01)					
ActiveListID =	Navigation Root (0x000	00)]	
ParentList ID =	Navigation Root (0x000	00)				
NbrItemsInSelection =					<u> </u>	
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Quick Navigation	Invalid	Invalid
x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	My Home	Invalid	Set Dest to entry 1 (If MyHome Not Saved, Goto Active List ID 0x
x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Previous Destinations	Goto Active List ID 0x0003 or 0x0004	Invalid
x0003	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Favorites	Goto Active List ID 0x0001 or 0x0004	
x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	POI Nearby	Goto Active List ID 0x0002	Invalid
		Foverites				
istServerID =	Navigation Info (0x01)	Favorites				
ctiveListID =	Favorites (0x0001)					
ParentList ID =	Navigation Root (0x000	00)			1	
lbrltemsInSelection =	25	,				
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Favorites	Invalid	Invalid
x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest1}	Invalid	Set Dest to entry 1
x0002	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest2}	Invalid	Set Dest to entry 2
x0003	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest3}	Invalid	Set Dest to entry 3
x0004	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest4}	Invalid	Set Dest to entry 4
x0005	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest5)	Invalid	Set Dest to entry 5
x0006 x0007	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest6} {FavDest7}	Invalid Invalid	Set Dest to entry 6 Set Dest to entry 7
x0007 x0008	Generic Text (0x02) Generic Text (0x02)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{FavDest7} {FavDest8}	Invalid	Set Dest to entry 7 Set Dest to entry 8
x0009	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest9}	Invalid	Set Dest to entry 9
x000A	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest10)	Invalid	Set Dest to entry 9 Set Dest to entry 10
<u> </u>						
x0019	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest25}	Invalid	Set Dest to entry 25
		POI Near by				
istServerID =	Navigation Info (0x01)					
ctiveListID =	POI Nearby (0x0002)					
arentList ID =	Navigation Root (0x000	00)			-	
lbr/tems/nSelection =	DataType	ActivationEvent	Object Type	MDi-4	matte matter material De benefit	
x0000	Generic Text (0x02)		List Label	ItemDescriptor POI Nearby	getItem(ItemIndex) Behavior Invalid	setItem() Behavior Invalid
x0000	Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_1}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POLCat_2}	Goto ActiveListID 0x0004 or 0x0005	Invalid
						Invalid
	Generic Text (0x02)	Not Supported (UXU)	LIST UDJECT (UX2)	{Favorite_POl_Cat_3}	Goto ActiveListID 0x0004 or 0x0005	
	Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2) List Object (0x2)	{Favorite_POl_Cat_3} {Favorite_POl_Cat_4}	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005	Invalid
x0004						
x0004	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
x0004 x0005	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0004 x0005 istServerID =	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01)	Not Supported (0x0) Not Supported (0x0) Previous Destinati	List Object (0x2) List Object (0x2)	{Favorite_POI_Cat_4}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0004 x0005 istServerID = ictiveListID =	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
x0004 x0005 istServerID = ctiveListID = 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
x0004 x0005 istServerID = ctiveListID = ParentList ID = IbritemsInSelection=	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations (Navigation Root (0x000) 20	Not Supported (0x0) Not Supported (0x0) Previous Destinati (0x0003)	List Object (0x2) List Object (0x2)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005	invalid Invalid
x0004 x0005 istServerID = ctiveListID = ParentList ID = IbrItems In Selection= ItemIndex	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
x0000 x0001	Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Previous Destinations : Navigation Root (0x00) 20 DataType Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0) Previous Destinati (0x0003) 00) ActivationEvent Not Supported (0x0) Supported (0x1)	List Object (0x2) List Object (0x2) list Object (0x2) Object Type List Label Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Frev_Dest_1)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Invalid	Invalid Invalid settlem() Behavior Invalid Set Dest to entry 1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	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) 000) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1)	List Object (0x2) List Object (0x2) Object Type List Label Entry Object (0x1) Entry Object (0x1)	(Favorite_POI_Cat_4) (Favorite_POI_Cat_5) ItemDescriptor Previous Destinations (Prev_Dest_1) (Frev_Dest_2)	Goto ActiveListID 0x0004 or 0x0005 Goto ActiveListID 0x0004 or 0x0005 gettem(ttemIndex) Behavior Invalid Invalid	Invalid Invalid settem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2
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\(\cdot \) (x0004 \(\cdot \) (x0005 \(\cdot \) (x0000 \(\cdot \) (x0005 \(\cdot \) (x0005 \(\cdot \) (x0005 \(\cdot \) (x0006 \(\cdot \) (Generic Text (0x02) Generic Text (0x02) Generic Text (0x02) Navigation Info (0x01) Provious Destinations (Navigation Root (0x00) 20 Data Type Generic Text (0x02) Navigation Info (0x01) POI Nearby (0x0002) of 1 Data Type Generic Text (0x02) Navigation Info (0x01) POI List (0x02) Navigation Info (0x01) Navigation POI (0x40)	Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) Previous Destinate (0x0003) Not Supported (0x0) ActivationEvent Not Supported (0x1) No Matches Four (0x04) r Navigation Root List (ActivationEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) Supported (0x1)	List Object (0x2) List Object (0x2) List Object (0x2) List Cobject (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 gettlem(ItemIndex) Behavior Invalid Inv	Invalid Invalid Invalid Set Dest to entry 1 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 7 Set Dest to entry 7 Set Dest to entry 8 Set Dest to entry 9 Set Dest to entry 10 Set Dest to entry 10 Set Dest to entry 10 Set Dest to entry 9 Set Dest to entry 1 Set Dest to entry 9 Set Dest to entry 6 Set Dest to entry 6 Set Dest to entry 7



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)					
NbrItemsInSelection=	2					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0×0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Cancel Route	Invalid	Invalid
0x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	Yes	Invalid	Cancel Current Services Route
0x0002	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	No	Invalid	Return to route (send CurrentStreetName.St with data update parameter)*
						*Reference S28 NAVREPEAT-GREQ-159114-1-List Browse-Set Operation

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

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

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

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

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

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

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

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

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

FILE: LIST BROWSER PROTOCOL APIM SPSS	FORD MOTOR COMPANY CONFIDENTIAL	Page 39 of 43
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When CarPlay is active, the following table shall be transferred via list browse protocol.

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

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

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

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

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

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

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

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

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

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

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



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

				Radio Data Service2 Root		
ListServerID =	Radio Data Service2 (0x08)			Radio Data Servicez Root		
ActiveListID =	Journaline (0x0000)		-			
ParentListID =	Journaline (0x0000)					
NbrltemsInSelection =						
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x00			List Label (0x0)	Journaline	Invalid	Invalid
0x01			x0) Entry Object (0x1) List Object (0x2)		refer to HMI specification for list object behavior && enter child list	refer to HMI specification for list entry behavio

0x32	Radio Journaline Data (0xA2)	Supported (0x1) Not Supported (0	x0) Entry Object (0x1) List Object (0x2)	(JournalineListEntry)	refer to HMI specification for list object behavior && enter child list	refer to HMI specification for list entry behavio
	Î					
		The ser	er structure (child list hirachy) for lourn	aline shall be build up according to the data		
			tted by the broadcaster. Following struct			
		Cunsiii	ted by the broadcaster. I browning struct	are is asea as arrexample only.		
				Radio Data Service2 Root		
ListServerID =	Radio Data Service2 (0x08)					
ActiveListID =	Journaline (0x0000)					
ParentListID =	Journaline (0x0000)				4	
NorltemsInSelection = ItemIndex		ActivationEvent	Obligations	ItemDescriptor	getItem(ItemIndex) Behavior	settlem(ItemIndex) Behavior
0x0000			ObjectType List Label (0x0)	ItemDescriptor Deutschlandradio Informationen	gettem(temIndex) Behavior Invalid	setItem(ItemIndex) Behavior Invalid
0x0000 0x0001			List Label (0x0) List Object (0x2)	News	Goto ActiveListID 0x0001	Invalid
0x0001 0x0002	Radio Journaline Data (0xA2)		List Object (0x2)	Traffic	Goto ActiveListID 0x0001	Invalid
0x0002 0x0003	Radio Journaline Data (0xA2)		List Object (0x2) List Object (0x2)	Weather	Goto ActiveListID 0x0002 Goto ActiveListID 0x0003	Invalid
0.00003	Radio Jodinalne Data (0XX2)	INOL Supported (0x0)	List Object (0X2)	weather	GOIO ACTIVELISTID 0X0003	ilivalid
				Radio Data Service2 Nachrichten		
ListServerID =	Radio Data Service2 (0x08)			Radio Data Servicez Nacimenten		
ActiveListID =	Journaline Root Item1 (0x000)	11)				
ParentListID =	Journaline (0x0000)	.,			1	
NorltemsInSelection =	1				1	
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000			List Label (0x0)	News	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)		List Object (0x2)	Deutschlandfunk News	Goto ActiveListID 0x0004 or 0x0005	Invalid
0x0001	radio dodrianie bala (dx/sz)	THOS COPPOSICO (CAO)	List Object (OXL)	Deadermandian rews	COLO FIGHELISTID GROUDS OF GROUDS	areas a
				Radio Data Service2 Verkehr		
ListServerID =	Radio Data Service2 (0x08)		*			
ActiveListID =	Journaline Root_Item2 (0x000)	2			i	
ParentListID =	Journaline (0x0000)	2			1	
NorltemsInSelection =					i	
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getitem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Padio Journalino Data (0x 4.2)					
		Not Supported (0x0)	List Label (0x0)	Traffic	Invalid	Invalid
0x0001	Radio Journaline Data (0xA2)			Traffic Current Traffic Jam Information		
0x0001			List Label (0x0)		Invalid	Invalid
			List Label (0x0)		Invalid	Invalid
ListSenerID =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08)	Not Supported (0x0)	List Label (0x0)	Current Traffic Jam Information	Invalid	Invalid
ListServerID = ActiveListID =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Item3 (0x000	Not Supported (0x0)	List Label (0x0)	Current Traffic Jam Information	Invalid	Invalid
ListServerID = ActiveListID = ParentListID =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Item3 (0x000) Journaline (0x0000)	Not Supported (0x0)	List Label (0x0)	Current Traffic Jam Information	Invalid	Invalid
ListServerID = ActiveListID = ParentListID = NorItemsInSelection =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Item3 (0x000 Journaline (0x0000) 1	Not Supported (0x0)	List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service2 Wetter	Instild Goto ActiveListID 0x0006 or 0x0005	Invalid Invalid
ListServerID = ActiveListID = ParentListID = NorItemsInSelection = ItemIndex	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Item3 (0x000) Journaline (0x0000) 1 DataType	Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType	Current Traffic Jam Information Radio Data Service2 Watter ItemDescriptor	Intelid Goto ActiveListID 0x0006 or 0x0005 Goto ActiveListID 0x0006 or 0x0005 gottlemitemindex) Behavior	Inselid Inselid Selfem(ItemIndex) Behavior
ListServerID = ActiveListID = ParentListID = NortemsInSelection = ItemIndex 0x0000	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_ltem3 (0x000) Journaline (0x0000) 1 DataType Radio Journaline Data (0xA2)	Not Supported (0x0) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0)	Current Traffic Jam Information Radio Data Service2 Wetter BemDescriptor Weather	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid seitlem(ItemIndex) Behavior Invalid
ListServerID = ActiveListID = ParentListID = NorltemsInSelection = ItemIndex 0x0000	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Item3 (0x000) Journaline (0x0000) 1 DataType	Not Supported (0x0) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType	Current Traffic Jam Information Radio Data Service2 Watter ItemDescriptor	Intelid Goto ActiveListID 0x0006 or 0x0005 Goto ActiveListID 0x0006 or 0x0005 gottlemitemindex) Behavior	Inselid Inselid Seltern(ItemIndex) Behavior
ListServerID = ActiveListID = ParentListID = NorItemsInSelection = ItemIndex	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_ltem3 (0x000) Journaline (0x0000) 1 DataType Radio Journaline Data (0xA2)	Not Supported (0x0) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service 2 Wetter TemPescriptor Westher Westher In Germany	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid Invalid seitlem(ItemIndex) Behavior Invalid
ListServerID = ActiveListID = ParentListID = NoritemsInSelection = ItemIndex 0x0000 0x0001	Radio Journaline Data (0xAz) Radio Data Servicez (0x08) Journaline Root, Item3 (0x000) Journaline (0x0000) 1 Data Type Radio Journaline Data (0xAz) Radio Journaline Data (0xAz)	Not Supported (0x0) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service2 Wetter BemDescriptor Weather	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid Invalid seitlem(ItemIndex) Behäuler Invalid
ListServerID = ActiveListID = ParentListID = NorthernsInSelection = ItemIndex 0x0000 0x00001 ListServerID =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root_Rem3 (0x000) Journaline (0x0000) DataType Radio Journaline Data (0xA2) Radio Journaline Data (0xA2) Radio Journaline Data (0xA2) Radio Journaline Data (0xA2)	Not Supported (0x0) ActivationEvert Not Supported (0x0) Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service 2 Wetter TemPescriptor Westher Westher In Germany	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid Invalid seitlem(ItemIndex) Behavior Invalid
ListServerID = ActiveListID = ParentListID = NorttemsInSelection = Remindex 0x0000 0x00001 ListServerID = ActiveListID =	Radio Journaline Data (0xAz) Radio Data Service2 (0x08) Journaline Root, Jerná (0x00) Journaline (0x0000) 1 DataType Radio Journaline Data (0xAz) Radio Journaline Data (0xAz) Radio Data Service2 (0x6x) Radio Data Service2 (0x6x) Journaline Child†, Item† (0x00	Not Supported (0x0) 33 ActivationEvent Not Supported (0x0) Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service 2 Wetter TemPescriptor Westher Westher In Germany	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid Invalid seitlem(ItemIndex) Behavior Invalid
ListServerID = ActiveListID = ParentListID = ParentListID = Nortlems in Selection = Benindex 0x0000 0x0001 ListServerID = ActiveListID = ParentListID =	Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Root, Item3 (0x000) Journaline (0x0000) Data Type Radio Journaline Data (0xA2) Radio Journaline Data (0xA2) Radio Journaline Data (0xA2) Radio Data Service2 (0x08) Journaline Child 1, lent (0x00) Journaline Child 1, lent (0x00) Journaline Child 1, lent (0x00)	Not Supported (0x0) 33 ActivationEvent Not Supported (0x0) Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2)	Current Traffic Jam Information Radio Data Service 2 Wetter TemPescriptor Westher Westher In Germany	Inelid Goto ActiveListD 0x0006 or 0x0005 gettlem(ternindex) Behävlor Invalid	Invalid Invalid Invalid seitlem(ItemIndex) Behavior Invalid
ListServerID = ActiveListID = ParentListID = ParentListID = NortemsInSelection = ItemIndex 0x0000 0x0001 ListServerID = ActiveListID = ParentListID = NortemsInSelection =	Radio Journaline Data (bxA2) Radio Data Service2 (bx08) Journaline Root, Bern3 (bx00) Journaline (bx0000) 1 DataType Radio Journaline Data (bxA2) Radio Journaline Data (bxA2) Radio Data Service2 (bx08) Journaline Data Service2 (bx08) Journaline Data Rent (bx00) Journaline Root, Bern1 (bx00)	Not Supported (0x0) AcmetionEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) 11)	List Label (0x0) List Object (0x2) ObjectType List Object (0x2) List Object (0x2) Redio O.	Current Traffic Jan Information Radio Data Service2 Wetter Service2 Wetter Weather Weather in Germany Na Service2 Deutschlandfunk Nachrichten	Invalid Goto ActiveListID 0x0006 or 0x0005 gentlemn(Bernholox) Behavior Invalid Goto ActiveListID 0x0007 or 0x0006	Innelid Innelid Innelid Settlemiteminides) Behavior Innelid Innelid
ListServerID = ActiveListID = ParentListID = ParentListID = NortemsInSelection = Bernindex 0x0000 0x0001 ListServerID = ActiveListID = ParentListID = NortemsInSelection = Bernindex	Radio Journaline Data (IXA2) Radio Data Service2 (IXO8) Journaline Root, Item3 (IXO00) Journaline (IXO00) Journaline (IXO00) Journaline (IXO00) Radio Journaline Data (IXA2) Radio Data Service2 (IXO0) Journaline Child I, Iem1 (IXXO0) Journaline Child I, Iem1 (IXXO0) 1. DotatType	Not Supported (0x0) ActivationEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) ActivationEvent ActivationEvent	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2) Collect (0x2) Collect (0x2)	Current Traffic Jain Information Radio Data Service2 Wetter Service2 Wetter Service3 Wetter Weather Weather in Germany Weather in Germany Jain Service2 Deutschlandfunk Nechrichten Service3 Deutschlandfunk Nechrichten	Intellid Goto ActiveListID 0x0005 or 0x00005 gethem(ternindex) Behavior Intelligent Goto ActiveListID 0x0007 or 0x0006	Innelid Innelid settlerm(termindex) Behavior Innelid innelid innelid settlerm(termindex) Behavior settlerm(termindex) Behavior
ListServerID = ActiveListID = ParentListID = Nortems in Selection = Remindex 0x0000 0x0001 ListServerID = ActiveListID = ParentListID = Nortemsin Selection = Remindex 0x0000 0x0000	Radio Journaline Data (IXA2) Radio Data Service2 (IXOS) Journaline Root, Berns (IXOS) Journaline Root, Berns (IXOS) Journaline Root (IXOS) Journaline Data (IXA2) Radio Journaline Data (IXA2) Radio Journaline Chief (IXA2) Radio Data Service2 (IXOS) Journaline Chief (IXOS) Journaline Chief (IXOS) Journaline Root (IXOS) JOHA Type Radio Journaline Root (IXA2)	Not Supported (0x0) ActivationEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) ActivationEvent 1) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2) Redo Do ObjectType List Label (0x0) List ObjectType List Label (0x0)	Current Traffic Jam Information Radio Data Service2 Wetter Temmbescriptor Weather In Germany Las Service2 Deutschlandfunk Nachrichten SternBescriptor Deutschlandfunk News	Invalid Goto ActiveListID 0x0005 or 0x0005 getBern(Remindex) Behavior vivalid Goto ActiveListID 0x0007 or 0x0005 getBern(Remindex) Behavior profilem(Remindex) Behavior profilem(Remindex) Behavior profilem	Inseld Inseld Settlem(Renindex) Behavior Vivalid Inseld Inseld Inseld Settlem(Renindex) Behavior Inseld Settlem(Renindex) Behavior Inseld
ListServerID = ActiveListID = ParentListID = NorthernsinSelection = Remindex 0x0000 0x0001 ListServerID = ActiveListID = ParentListID = NorthernsinSelection = Remindex Remindex	Radio Journaline Data (IXA2) Radio Data Service2 (IXO8) Journaline Root, Item3 (IXO00) Journaline (IXO00) Journaline (IXO00) Journaline (IXO00) Radio Journaline Data (IXA2) Radio Data Service2 (IXO0) Journaline Child I, Iem1 (IXXO0) Journaline Child I, Iem1 (IXXO0) 1. DotatType	Not Supported (0x0) ActivationEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) ActivationEvent 1) ActivationEvent Not Supported (0x0)	List Label (0x0) List Object (0x2) ObjectType List Label (0x0) List Object (0x2) Collect (0x2) Collect (0x2)	Current Traffic Jain Information Radio Data Service2 Wetter Service2 Wetter Service3 Wetter Weather Weather in Germany Weather in Germany Jain Service2 Deutschlandfunk Nechrichten Service3 Deutschlandfunk Nechrichten	Intellid Goto ActiveListID 0x0005 or 0x00005 gethem(ternindex) Behavior Intelligent Goto ActiveListID 0x0007 or 0x0006	Innalid Innalid settlerm(ternindex) Behavior Innalid innalid innalid settlerm(ternindex) Behavior innalid
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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 =	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	1
0x0001	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	protection
0x0002	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	for C519
0x0003	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0004	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0005	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0006	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0060	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	

2.11 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 41 of 43
V1.8.1 JAN 23, 2020	The information contained in this document is Proprietary to Ford Motor Company.	. ago oe

2.11.2 White Box View

2.11.2.1 White Box Scenarios

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

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Scenarios

Normal Usage

A server list is getting updated.

Constraints

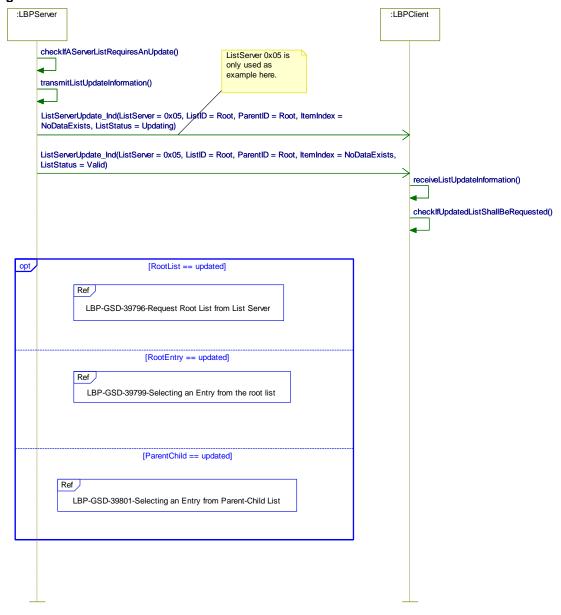
Pre-condition

Network is active.

Post-condition

Server list update information is indicated to the client.

Sequence Diagram





3 Appendix: Reference Documents

Reference	Document Title
#	
1	
2	
3	
4	
5	