

RDK-V RPi4 64bit migration

Repo Setup:

- repo init -u <https://code.rdkcentral.com/r/manifests> -b dunfell -m rdkv-nosrc.xml
- repo sync -j `nproc` --no-clone-bundle --no-tags

Build Instructions:

- MACHINE=raspberrypi4-64-rdk-hybrid source meta-cmf-raspberrypi/setup-environment
- bitbake rdk-generic-hybrid-wpe-image

Prerequisites:

Changes needed to be done till the meta layers.

	Meta Layer	Recipe	Change
1	meta-cmf-video-restricted/meta-cmf-video-restricted/	recipes-extended/websocket-ipplayer2/websocket-ipplayer2-utils_git.bb	<pre>--- a/recipes-extended/websocket-ipplayer2/websocket-ipplayer2-utils_git.bb +++ b/recipes-extended/websocket-ipplayer2/websocket-ipplayer2-utils_git.bb @@ -34,7 +34,7 @@ SRCREV = "\${AUTOREV}" SRC_URI = "\${CMF_GIT_ROOT}/components/generic/websocket-ipplayer2-utils; name=websocket-ipplayer2-utils;protocol=\${RDK_GIT_PROTOCOL}; branch=\${CMF_GIT_MASTER_BRANCH}" S = "\${WORKDIR}/git/" - +LDFLAGS_append_aarch64 = " -lrdkloggers" FILES_\${PN} = "" FILES_\${PN}-dev = "\${datadir}/cmake/Modules/websocket-ipplayer2-utils/*.cmake" FILES_\${PN}-dev += "\${includedir}/ipp2/*.h"</pre>
2		meta-cmf-video-restricted/recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bb	<pre>--- a/recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bb +++ b/recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bb @@ -25,7 +25,7 @@ SUMMARY = "MPEG Dash Client" LICENSE = "RDK" LIC_FILES_CHKSUM = "file://LICENSES.TXT; md5=9b6e7bbf5a50244b71ec3d67bd3a552d" -DEPENDS = "gststreamer1.0 libsoup-2.4 gststreamer-cxx websocketpp websocket-ipplayer2- utils-dev boost libtinyxml2" +DEPENDS = "gststreamer1.0 libsoup-2.4 gststreamer-cxx websocketpp websocket-ipplayer2- utils-dev boost libtinyxml2 rdk-logger" RDEPENDS_\${PN} += "gststreamer1.0 libtinyxml2 boost-system boost-thread" SRCREV = "\${AUTOREV}" @@ -42,6 +42,7 @@ S = "\${WORKDIR}/git/" inherit pkgconfig cmake systemd coverity +LDFLAGS_append_aarch64 = " -lrdkloggers" PACKAGECONFIG ?= "" PACKAGECONFIG[rpi] = "-DBUILD_RDK_REFERENCE_RPI=ON, - DBUILD_RDK_REFERENCE_RPI=OFF,"</pre>
3	meta-cmf-raspberrypi/	conf/layer.conf	<pre>--- a/conf/layer.conf +++ b/conf/layer.conf @@ -23,7 +23,7 @@ LAYERDEPENDS_cmf-raspberrypi_append = " raspberrypi" require conf/distro/include/rdk-rpi.inc require conf/include/rdk-external-src-platform.inc -include include/rdk-bbmask-##RDK_FLAVOR##-platform.inc +include include/rdk-bbmask-rdkv-platform.inc # RDK RPI builds include gststreamer ugly plugins LICENSE_FLAGS_WHITELIST += "commercial_gstreamer1.0-plugins-ugly"</pre>

4		<pre> recipes-common/telemetry/telemetry_git.bbappend </pre>	<pre> --- a/recipes-common/telemetry/telemetry_git.bbappend +++ b/recipes-common/telemetry/telemetry_git.bbappend @@ -1 +1 @@ -CFLAGS_remove_aarch64_broadband = " -Werror" +CFLAGS_remove_aarch64 = " -Werror" </pre>
5		<pre> recipes-connectivity/bluetooth/bluetooth-mgr_git.bbappend </pre>	<pre> --- a/recipes-connectivity/bluetooth/bluetooth-mgr_git.bbappend +++ b/recipes-connectivity/bluetooth/bluetooth-mgr_git.bbappend @@ -1 +1,3 @@ EXTRA_OECONF += " --enable-pi-build " + +CFLAGS += " -Wno-error" </pre>
6		<pre> recipes-core/images/rdk-generic-hybrid-wpe-image.bbappend </pre>	<pre> --- a/recipes-core/images/rdk-generic-hybrid-wpe-image.bbappend +++ b/recipes-core/images/rdk-generic-hybrid-wpe-image.bbappend @@ -10,6 +10,9 @@ IMAGE_INSTALL_append = " \ IMAGE_INSTALL_remove = " \ westeros-init \ wpe-webkit-init \ + libcobalt \ </pre>
7		<pre> recipes-support/rdkx_logger/rdkx-logger_1.0.bbappend-o </pre>	<pre> do_configure_aarch64_hybrid () { sed -i "/struct rdkx_logger_module_s *rdkx_logger_module_str_to_index/d" \${S}/src/rdkx_logger_private.h sed -i "/struct rdkx_logger_level_s *rdkx_logger_level_str_to_num/d" \${S}/src/rdkx_logger_private.h } </pre>
8	meta-cmf-video	<pre> recipes-support/rdkx_logger/rdkx-logger_1.0.bbappend </pre>	<pre> --- a/recipes-support/rdkx_logger/rdkx-logger_1.0.bbappend +++ b/recipes-support/rdkx_logger/rdkx-logger_1.0.bbappend @@ -1 +1,2 @@ EXTRA_OECONF_append = " --enable-rdkv " +CFLAGS_remove_aarch64 += " -Werror " </pre>
9	meta-cmf-raspberrypi-restricted	<pre> recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bbappend </pre>	<pre> --- a/meta-cmf-video-restricted/recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bbappend +++ b/meta-cmf-video-restricted/recipes-extended/websocket-ipplayer2/websocket-ipplayer2_git.bbappend @@ -25,6 +25,7 @@ FILESEXTRAPATHS_prepend := "\${THISDIR}/files:" SRC_URI += "file://websocket-ipplayer.service" +LDFLAGS_append_aarch64 = " -lrdkloggers " PACKAGECONFIG += "rpi" do_install_append() { </pre>
10	meta-rdk-restricted	<pre> recipes-extended/fog/fog_git.bb </pre>	<pre> --- a/recipes-extended/fog/fog_git.bb +++ b/recipes-extended/fog/fog_git.bb @@ -34,8 +34,8 @@ CFLAGS += "\${@bb.utils.contains('DISTRO_FEATURES', 'systemd', '-DUSE_SYSTEMD_JOU CFLAGS += "-D_FILE_OFFSET_BITS=64 -D_LARGEFILE64_SOURCE" CXXFLAGS += "\${@bb.utils.contains('DISTRO_FEATURES', 'systemd', '-DUSE_SYSTEMD_JOURNAL_PRINT -DSD_JOURNAL_SUPPRESS_LOCATION', '', d)}" CXXFLAGS += "-D_FILE_OFFSET_BITS=64 -D_LARGEFILE64_SOURCE" -CFLAGS += "-DYAJL2_V2" -CXXFLAGS += "-DYAJL2_V2" +CFLAGS += "-DYAJL2_V2 -Wno-error" +CXXFLAGS += "-DYAJL2_V2 -Wno-error" </pre>

11	meta-rdk-video	recipes-extended/ctrlm/ctrlm-main.bb	<pre> --- a/recipes-extended/ctrlm/ctrlm-main.bb +++ b/recipes-extended/ctrlm/ctrlm-main.bb @@ -63,7 +63,7 @@ @ @ INCLUDE_DIRS = " \ " CXXFLAGS_append = "-std=c++11 -fPIC -D_REENTRANT -rdynamic -Wall -Werror" \${INCLUDE_DIRS}" - +CXXFLAGS_remove_aarch64 = "-Werror" CXXFLAGS_append = "\${@bb.utils.contains('DISTRO_FEATURES_RDK', 'comcast-gpertools-heapcheck-wp', '-DFDC_ENABLED', '', d)}" CXXFLAGS_append = "-DSYSTEMD_NOTIFY" </pre>
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Errors and Fixes:

	Source File	Error/ Warning	Fix
1	git/src /rtRemoteValueWriter.cpp	error: cast from 'voidPtr' {aka 'void*'} to 'uint32_t' {aka 'unsigned int'} loses precision	to.AddMember("value", (uintptr_t)(from. toVoidPtr()), doc.GetAllocator()); - rtRemoteValueWriter.cpp - line no : 144
2	git/src /rdkx_logger_level.hash	error: conflicting types for 'rdkx_logger_level_str_to_num'	Added rdkx-logger*.bbappend in meta-cmf-raspberrypi
3	git/src /rdkx_logger_private.h	note: previous declaration of 'rdkx_logger_level_str_to_num' was here 25 struct rdkx_logger_level_s * rdkx_logger_level_str_to_num(const char *str, unsigned int len);	Added rdkx-logger*.bbappend in meta-cmf-raspberrypi
4	dsVideoPort.c	In function 'dsError_t dsGetVideoPort(dsVideoPortType_t, int, int*)' cast from 'VOPHandle_t*' {aka '_VOPHandle_t*'} to 'int' loses precision	Change int -> intptr_t
5	dsDisplay.c	137:48: error: cast from 'VDISPHandle_t*' {aka '_VDISPHandle_t*'} to 'int' loses precision [- fpermissive] 137 *handle = (int)&_handles[m_vType][index];	Change int -> intptr_t
6	dsAudio.c	cast from 'AOPHandle_t*' {aka '_AOPHandle_t*'} to 'int' loses precision [-fpermissive] 162 *handle = (int)&_handles[type][index]; 62:36: error: cast from 'AOPHandle_t*' {aka '_AOPHandle_t*'} to 'int' loses precision [- fpermissive] 62 if ((int)&_handles[index][0] == uHandle) {	Change int -> intptr_t
7	git/src /ctrlm_xraudio_hal.c	130:6: error: conflicting types for 'xraudio_hal_available_devices_get' 130 bool xraudio_hal_available_devices_get(xraudio_devices_input_t *inputs, uint32_t input_qty_max, xraudio_devices_output_t *outputs, size_t output_qty_max) { ^~~~~~	./ctrlm_xraudio_hal.c:130:bool xraudio_hal_available_devices_get (xraudio_devices_input_t *inputs, uint32_t input_qty_max, xraudio_devices_output_t *outputs, uint32_t_t output_qty_max)
8	git/src/bt-ifce /btrCore_dbus_blueZ5.c	git/include/logger/btrCore_logger.h:23:25: error: format '%d' expects argument of type 'int', but argument 6 has type 'size_t' {aka 'long unsigned int'} [-Werror=format=]	Added bbappend in meta-cmf-rasp
9	git/source /ccspinterface /rbusInterface.c	142:13: error: format '%d' expects argument of type 'int', but argument 3 has type 'size_t' {aka 'long unsigned int'} [-Werror=format=]	Added bbappend in meta-cmf-rasp - telemetry
10	git/src /xrsv_ws_nextgen /xrsv_ws_nextgen _private.h	<pre> ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_msgtype.hash:61:1: error: conflicting types for 'xrsv_ws_nextgen_msgtype_handler_get' In file included from ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_msgtype.hash:6: ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_private.h:78:44: note: previous declaration of 'xrsv_ws_nextgen_msgtype_handler_get' was here 78 struct xrsv_ws_nextgen_msgtype_handler_s * xrsv_ws_nextgen_msgtype_handler_get (const char *str, unsigned int len); ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_tv_control.hash:61:1: error: conflicting types for 'xrsv_ws_nextgen_tv_control_handler_get' In file included from ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_tv_control.hash:6: ../git/src/xrsv_ws_nextgen/xrsv_ws_nextgen_private.h:79:47: note: previous declaration of 'xrsv_ws_nextgen_tv_control_handler_get' was here </pre>	./xrsv_ws_nextgen /xrsv_ws_nextgen_private.h - commented last 2 lines

11	git/src/xrsv_ws/xrsv_ws_private.h	<p>../git/src/xrsv_ws/xrsv_ws_action_phone.hash:61:1: error: conflicting types for 'xrsv_ws_action_phone_handler_get'</p> <p> In file included from ../git/src/xrsv_ws/xrsv_ws_action_phone.hash:6:</p> <p> ../git/src/xrsv_ws/xrsv_ws_private.h:85:36: note: previous declaration of 'xrsv_ws_action_phone_handler_get' was here</p>	xrsv_ws/xrsv_ws_private.h - commented last 3 lines
12	git/v4l2/westeros-sink/westeros-sink-soc.c	<p>4508:79: error: invalid conversion from 'long long int*' to 'gint64*' {aka 'long int*'} [-fpermissive]</p> <p> 4508 if (gst_element_query_position(avctx->audioSink, GST_FORMAT_TIME, &avTime))</p>	long long avTime= 0 -> long int avTime= 0
13	qtbasesrc-5.1.1/src/gui/opengl/qopengl.h	<p>../include/QtGui/../../../qtbasesrc-5.1.1/src/gui/opengl/qopengl.h:97:17: error: conflicting declaration 'typedef GLfloat GLdouble'</p> <p>97 typedef GLfloat GLdouble;</p> <p> ^~~~~~</p> <p>In file included from /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/qtbasesrc-5.1.1-r0/qtbasesrc-5.1.1/src/plugins/platforms/kms/qkmscreen.h:59,</p> <p>from /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/qtbasesrc-5.1.1-r0/qtbasesrc-5.1.1/src/plugins/platforms/kms/qkmsintegration.cpp:44:</p> <p>/home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/qtbasesrc-5.1.1-r0/recipe-sysroot/usr/include/GLES2/gl2ext.h:3092:16: note: previous declaration as 'typedef double GLdouble'</p> <p>3092 typedef double GLdouble;</p>	commented typedef GLfloat GLdouble this line in qopengl.h
14	cobalt module	<p>imizing-move -ftrti -fno-exceptions -c ../cobalt/configuration/configuration.cc -o obj/cobalt/configuration/configuration.o</p> <p> In file included from ../base/memory/singleton.h:33,</p> <p> from ../cobalt/configuration/configuration.cc:18:</p> <p> ../base/lazy_instance_helpers.h: In instantiation of 'Type* base::subtle::GetOrCreateLazyPointer(base::subtle::AtomicWord*, Type* (*)(void*), void*, void (*)(void*), void*) [with Type = cobalt::configuration::Configuration; base::subtle::AtomicWord = int]':</p> <p> ../base/memory/singleton.h:236:42: required from 'static Type* base::Singleton<Type, Traits, DifferentiatingType>::get() [with Type = cobalt::configuration::Configuration; Traits = base::LeakySingletonTraits<cobalt::configuration::Configuration>; DifferentiatingType = cobalt::configuration::Configuration]'</p> <p> ../cobalt/configuration/configuration.cc:29:70: required from here</p> <p> ../base/lazy_instance_helpers.h:83:11: error: cast from 'cobalt::configuration::Configuration' to 'base::subtle::AtomicWord' {aka 'int'} loses precision [-fpermissive]</p> <p> 83 reinterpret_cast<subtle::AtomicWord>((*creator_func)(creator_arg));</p> <p> ^~~~~~</p> <p>~~~~~</p> <p>error: unrecognized command line option '-mfpv=neon'</p> <p>aarch64-rdk-linux-g++: error: unrecognized command line option '-mfpv=vfpv3'</p> <p>aarch64-rdk-linux-g++: error: unrecognized command line option '-mfloat-abi=softfp'</p> <p>aarch64-rdk-linux-g++: error: unrecognized command line option '-marm'</p> <p>ninja: build stopped: subcommand failed.</p> <p>../third_party/protobuf/src/google/protobuf/arena.cc:158:113: error: cast from 'google::protobuf::Arena::Block*' to 'google::protobuf::internal::AtomicWord' {aka 'int'} loses precision [-fpermissive]</p>	removed cobalt module
15	src/rmf_sectionfilter.cpp	<p>../git/qamsource/simgr/inband/src/rmf_sectionfilter.cpp:641:37: error: cast from 'rmf_sf_SectionRequest_t*' {aka 'rmf_sf_SectionRequest_s*'} to 'uint32_t' {aka 'unsigned int'} loses precision [-fpermissive]</p> <p> 641 ReleaseFilterRequest((uint32_t) pRequest);</p> <p> ^~~~~~</p> <p>../git/qamsource/simgr/inband/src/rmf_sectionfilter.cpp: In member function 'rmf_Error rmf_SectionFilter::ReleaseFilter(uint32_t)':</p> <p> ../git/qamsource/simgr/inband/src/rmf_sectionfilter.cpp:708:37: error: cast from 'rmf_sf_SectionRequest_t*' {aka 'rmf_sf_SectionRequest_s*'} to 'uint32_t' {aka 'unsigned int'} loses precision [-fpermissive]</p> <p> 708 ReleaseFilterRequest ((uint32_t)pFilter_Request);</p>	(rmf_SiServiceHandle)new_si_entry -> (uintptr_t)new_si_entry

16	./src /rmf_oobsicache. cpp	<pre> ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:8980:42: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 8980 SetSourceId((rmf_SiServiceHandle)new_si_entry, input_si_entry->source_id); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:8983:41: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 8983 SetAppType((rmf_SiServiceHandle)new_si_entry, input_si_entry->isAppType); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:8984:39: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 8984 SetAppld((rmf_SiServiceHandle)new_si_entry, input_si_entry->app_id); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:8985:49: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 8985 SetActivationTime ((rmf_SiServiceHandle)new_si_entry, input_si_entry- ->activation_time); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:8986:47: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 8986 SetChannelNumber((rmf_SiServiceHandle)new_si_entry, input_si_entry- ->virtual_channel_number, RMF_SI_DEFAULT_CHANNEL_NUMBER); ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:5852:71: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 5852 pgm->services->push_back((rmf_SiServiceHandle)new_si_entry); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:5856:70: error: cast from 'rmf_SiTableEntry*' to 'rmf_SiServiceHandle' {aka 'unsigned int'} loses precision [-fpermissive] 5856 ts->services->push_back((rmf_SiServiceHandle)new_si_entry); ^~~~~~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:5890:73: error: cast from 'rmf_SiTransportStreamEntry*' to 'rmf_SiTransportStreamHandle' {aka 'unsigned int'} loses precision [-fpermissive] 5890 new_si_entry->ts_handle = (rmf_SiTransportStreamHandle) ts; ^~ ../../../../git/qamsource/simgr/oob/./src/rmf_oobsicache.cpp:5891:62: error: cast from 'rmf_SiProgramInfo*' to 'rmf_SiProgramHandle' {aka 'unsigned int'} loses precision [- fpermissive] 5891 new_si_entry->program = (rmf_SiProgramHandle)pgm; ^~~ </pre>	change the datatype int -> intptr_t
17	/usr/src/debug /websocket- ipplayer2-utils/git- r0/git/src/ipp2 /RdkLogProvider. cpp	/usr/src/debug/websocket-ipplayer2-utils/git-r0/git/src/ipp2/RdkLogProvider.cpp:34: undefined reference to 'rdk_logger_init'	Add -Irdkloggers in cmake in *utils source code build-raspberrypi4-64-rdk-hybrid/tmp/work /aarch64-rdk-linux/websocket-ipplayer2-utils /git-r0/git/src/ipp2/ CMakeLists.txt
18	git/src/audioCap /btrMgr_audioCap .c	<p>In file included from ../../../../git/src/audioCap/btrMgr_audioCap.c:58:</p> <pre> ../../../../git/src/audioCap/btrMgr_audioCap.c: In function 'btrMgr_AC_rmfStatusChangeCb': ../../../../git/include/logger/btrMgr_logger.h:23:25: error: format '%d' expects argument of type 'int', but argument 5 has type 'size_t' {aka 'long unsigned int'} [-Werror=format=] 23 #define PREFIX(format) "%d\t: %s - " format ../../../../git/include/logger/btrMgr_logger.h:39:22: note: in definition of macro 'LOG_WARN' 39 fprintf (stderr, format, __VA_ARGS__); ../../../../git/include/logger/btrMgr_logger.h:68:53: note: in expansion of macro 'PREFIX' 68 #define BTRMGRLOG_WARN(format, ...) LOG_WARN(PREFIX (format), __LINE__, __FUNCTION__, ##__VA_ARGS__) ../../../../git/src/audioCap/btrMgr_audioCap.c:1270:13: note: in expansion of macro 'BTRMGRLOG_WARN' 1270 BTRMGRLOG_WARN("Status Changed - Fifo Depth = %d\n", lstBtrMgrRmfAcStatus.fifoDepth); ../../../../git/src/audioCap/btrMgr_audioCap.c:1270:60: note: format string is defined here cc1: all warnings being treated as errors </pre>	Add CFLAGS in bbappend in meta-cmf-rasp

19	git/src/tcjson.cpp	<pre> ../git/src/tcjson.cpp:175:20: error: invalid conversion from 'int (*)(void*, const char*, unsigned int)' to 'int (*)(void*, const char*, size_t)' {aka 'int (*)(void*, const char*, long unsigned int)'} [-fpermissive] 175 ParserContext::parse_number, ~~~~~^~~~~~ int (*)(void*, const char*, unsigned int) ../git/src/tcjson.cpp:176:20: error: invalid conversion from 'int (*)(void*, const unsigned char*, unsigned int)' to 'int (*)(void*, const unsigned char*, size_t)' {aka 'int (*)(void*, const unsigned char*, long unsigned int)'} [-fpermissive] 176 ParserContext::parse_string, ~~~~~^~~~~~ int (*)(void*, const unsigned char*, unsigned int) ../git/src/tcjson.cpp:178:20: error: invalid conversion from 'int (*)(void*, const unsigned char*, unsigned int)' to 'int (*)(void*, const unsigned char*, size_t)' {aka 'int (*)(void*, const unsigned char*, long unsigned int)'} [-fpermissive] 178 ParserContext::parse_map_key, ~~~~~^~~~~~ int (*)(void*, const unsigned char*, unsigned int) ../git/src/tcjson.cpp: In member function 'std::string TcJson::toString(bool) const': ../git/src/tcjson.cpp:700:31: error: cannot convert 'unsigned int*' to 'size_t*' {aka 'long unsigned int*'} 700 yajl_gen_get_buf(g, &buf, &len); ^~~~ unsigned int* </pre>	Modified error lines in tcjson.cpp in fog comp change the datatype accordingly
20	RDKShell.cpp	error: cannot bind non-const lvalue reference of type 'uint32_t&' {aka 'unsigned int&'} to an rvalue of type 'uint32_t' {aka 'unsigned int'}	CompositorController::screenShot(data, (unsigned int&)size) - RDKShell.cpp - rdkservice comp
21	git/Source/WebCore/platform/ttsclient/PlatformSpeechSynthesizerTTSClient.cpp	<pre> git/Source/WebCore/platform/ttsclient/PlatformSpeechSynthesizerTTSClient.cpp:185:40: error: cast from 'WebCore::PlatformSpeechSynthesisUtterance*' to 'uint32_t' {aka 'unsigned int'} loses precision [-fpermissive] 185 sdata.id = (uint32_t)utterance.get(); git/Source/WebCore/platform/ttsclient/PlatformSpeechSynthesizerTTSClient.cpp:223:77: error: cast from 'WebCore::PlatformSpeechSynthesisUtterance*' to 'uint32_t' {aka 'unsigned int'} loses precision [-fpermissive] </pre>	uint32_t -> uintptr_t
22	git/src/ctrlm_database.cpp	<pre> ../git/src/ctrlm_database.cpp:1433:88: error: invalid conversion from 'guint64*' {aka 'long unsigned int*'} to 'sqlite_uint64*' {aka 'long long unsigned int*'} [-fpermissive] 1433 ctrlm_db_read_uint64(CTRLM_DB_TABLE_CTRLMGR, ^~~~~~ guint64* {aka long unsigned int*} ../git/src/ctrlm_database.cpp:732:78: note: initializing argument 3 of 'int ctrlm_db_read_uint64(const char*, const char*, sqlite_uint64*)' 732 int ctrlm_db_read_uint64(const char *table, const char *key, sqlite_uint64 *value) { ~~~~~^~~~~~ ../git/src/ctrlm_database.cpp: In function 'void ctrlm_db_rf4ce_read_polling_methods(ctrlm_network_id_t, ctrlm_controller_id_t, guint8*)': ../git/src/ctrlm_database.cpp:2306:51: error: invalid conversion from 'guint64*' {aka 'long unsigned int*'} to 'sqlite_uint64*' {aka 'long long unsigned int*'} [-fpermissive] 2306 ctrlm_db_read_uint64(table, "polling_methods", &temp_polling_methods); ^~~~~~ </pre>	guint64 -> long long unsigned int (ctrlm_database.cpp) & remove -Werror form cxxflags

25	/tmp/work /aarch64-rdk-linux /sessionmgr/git-r0 /git/src /SessionMgr.cpp	<p>/home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:17719:67: error: invalid conversion from 'int64_t*' {aka 'long int*'} to 'long long int*' [-fpermissive]</p> <pre> 17719 if (sessionmgr_GetLongIntFromJson(item, "interval", &uid_interval)) { ^~~~~~ int64_t* {aka long int*}</pre> <p> In file included from /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:122:</p> <p> /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.JsonHelper.h:39:90: note: initializing argument 3 of 'bool sessionmgr_GetLongIntFromJson(json_t*, const char*, long long int*)'</p> <pre> 39 bool sessionmgr_GetLongIntFromJson(json_t *object, const char* name, long long *val); ^~~~~~</pre> <p> /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:17728:67: error: invalid conversion from 'int64_t*' {aka 'long int*'} to 'long long int*' [-fpermissive]</p> <pre> 17728 if (sessionmgr_GetLongIntFromJson(uidParamsObject, "count", &uid_count)) { ^~~~~~ int64_t* {aka long int*}</pre> <p> In file included from /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:122:</p> <p> /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.JsonHelper.h:39:90: note: initializing argument 3 of 'bool sessionmgr_GetLongIntFromJson(json_t*, const char*, long long int*)'</p> <pre> 39 bool sessionmgr_GetLongIntFromJson(json_t *object, const char* name, long long *val); ^~~~~~</pre> <p> /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:17730:74: error: invalid conversion from 'int64_t*' {aka 'long int*'} to 'long long int*' [-fpermissive]</p> <pre> 17730 if (sessionmgr_GetLongIntFromJson(uidParamsObject, "interval", &uid_interval)) { ^~~~~~</pre> <p> /home/kpandu549/keerthana/oct27-v/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/sessionmgr/git-r0/git/src/SessionMgr.cpp:14531:84: error: call of overloaded 'addNum(const char*&, const char [5], int64_t)' is ambiguous</p> <pre> 14531 response.addNum(property, "%lld", session->source->getTimeshiftBuffer());</pre>	Update SessionMgr.cpp datatypes according to the error
26	recorder.cpp	rmfstreamer - undefined reference to `RMFiPPVSrc::purchasePPVEvent(unsigned int&)'	added stub for RMFiPPVSrc::purchasePPVEvent(unsigned int&) in recorder.cpp
27	git/daemon /source/utlis /logging.cpp	<p> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/asbluetoothrcu/1.99-r0/recipe-sysroot/usr/include/qt5/QtCore/qbasicatomic.h: In instantiation of 'T QBasicAtomicInteger<T>::fetchAndAndOrdered(T) [with T = int]':</p> <p> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/asbluetoothrcu/1.99-r0/recipe-sysroot/usr/include/qt5/QtCore/qbasicatomic.h:254:14: required from 'T QBasicAtomicInteger<T>::operator&=(T) [with T = int]'</p> <p> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/asbluetoothrcu/1.99-r0/git/daemon/source/utlis/logging.cpp:630:36: required from here</p> <p> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/asbluetoothrcu/1.99-r0/recipe-sysroot/usr/include/qt5/QtCore/qbasicatomic.h:220:37: error: 'fetchAndAndOrdered' is not a member of 'QBasicAtomicInteger<int>::Ops' {aka 'QAtomicOps<int>'}</p> <pre> 220 { return Ops::fetchAndAndOrdered(_q_value, valueToAdd); }</pre> <pre> ^~~~~~</pre>	<p>g_logTargets &= ~LoggingTarget::EthanLog;</p> <p>change the expression to</p> <p>g_logTargets = (g_logTargets & ~LoggingTarget::EthanLog);</p>

28	servicemanager module	<pre> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/servicemanager/1.99-r0/recipe-sysroot-native/usr/bin/aarch64-rdk-linux/./libexec/aarch64-rdk-linux/gcc/aarch64-rdk-linux/9.3.0/ld: ../servicemanager/libservicemanager.so: undefined reference to `QAbstractScrollArea::viewport() const' collect2: error: ld returned 1 exit status Makefile:125: recipe for target 'servicemanagerapp' failed make[1]: *** [servicemanagerapp] Error 1</pre>	<p>add the below changes in servicemanagerapp.pro</p> <p>QT += widgets</p> <p>QT += opengl</p> <p>Path : servicemanager/1.99-r0/git/build/servicemanagerapp/servicemanagerapp.pro</p>
29	git/src/helpers/jsonwriter.cpp	<pre> ../git/src/helpers/jsonwriter.cpp: In member function 'QString JSONWriter::write(const QVariantHash&)': ../git/src/helpers/jsonwriter.cpp:71:49: error: cannot convert 'unsigned int*' to 'size_t*' {aka 'long unsigned int*'} 71 yajl_gen_get_buf((yajl_gen) m_handle, &buf, &len); ^~~~ unsigned int* ../git/src/helpers/jsonwriter.cpp: In member function 'QString JSONWriter::write(const QVariantMap&)': ../git/src/helpers/jsonwriter.cpp:89:49: error: cannot convert 'unsigned int*' to 'size_t*' {aka 'long unsigned int*'} 89 yajl_gen_get_buf((yajl_gen) m_handle, &buf, &len); ^~~~ unsigned int* /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/servicemanager/1.99-r0/recipe-sysroot/usr/include/yajl/yajl_gen.h:146:56: note: initializing argument 3 of 'yajl_gen_status yajl_gen_get_buf(yajl_gen, const unsigned char**, size_t*)' 146 size_t * len); ~~~~~~^~~ ../git/src/helpers/jsonwriter.cpp: In member function 'QString JSONWriter::write(QVariantList&)': ../git/src/helpers/jsonwriter.cpp:108:49: error: cannot convert 'unsigned int*' to 'size_t*' {aka 'long unsigned int*'} </pre>	<p>unsigned int len long unsigned int len</p>
30	servicemanager module	<pre> /home/pjames993/64bit_dunfell_17nov/build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/servicemanager/1.99-r0/recipe-sysroot-native/usr/bin/aarch64-rdk-linux/./libexec/aarch64-rdk-linux/gcc/aarch64-rdk-linux/9.3.0/ld: ../servicemanager/libservicemanager.so: undefined reference to `ServiceManager::HTTPNetworkAccessManager::HTTPNetworkAccessManager(QObject*)'</pre>	<p>comment out the below conditions in build-raspberrypi4-64-rdk-hybrid/tmp/work/aarch64-rdk-linux/servicemanager/1.99-r0/git/build/servicemanager/servicemanager.pro file</p> <pre>#contains(DEFINES, SCREEN_CAPTURE) { # !contains(DEFINES, DISABLE_SCREEN_CAPTURE) { . . #.} #}</pre>

Known Issues:

- Accelerator Home UI (UI on TV) is not coming up consistently.
- Resolution Issues seen. Display on TV is not full screen.
- Cobalt plugin is not available in Controller UI.
- Every 50 mins reboot is observed due to Control Manager Service.

Note:

- This is page is work in progress one with change-sets will be pushed in phases of sprint.