

Clean unused dependencies to improve build time #3468

New issue

Open

3 tasks done

VRichardJP opened this issue on Apr 28, 2023 · 14 comments



VRichardJP commented on Apr 28, 2023 ·

edited

Contributor

Checklist

- ☒ I've read the [contribution guidelines](#).
- ☒ I've searched other issues and no duplicate issues were found.
- ☒ I've agreed with the maintainers that I can plan this task.

Description

Building Autoware takes time, but it is not just because there are a lot of files to compile. Building time also increases when packages have more dependencies than they should, because:

- it may create bottleneck in the build pipeline: some packages are waiting for some others while they could be built in parallel.
- it inflates the numbers of include/link arguments passed down to the compiler, linker and recursively to downstream packages. This is most impactful on "deep" packages. See for example: [ament_auto macros are too slow?](#) [ament/ament_cmake#442 \(comment\)](#)

Every now and then, I think it is important to clean the `packages.xml` files and remove unused dependencies.

Purpose

Improve build time.

Possible approaches

This is a very tedious and annoying job. I wrote a simple script that try to list seemingly unused `<depend>` packages:

Assignees

No one assigned

Labels

status:help-wanted

type:build

type:new-feature

type:performance

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

9 participants



```
#!/bin/bash
# This script find recursively all package.xml files
# Then check if all package marked <depend> are effective
# Packages marked <depend> normally either provide service or
# Packages that should always be <buildtool_depend>,
KNOWN_BUILDTOOLS="roscpp_default_generators;autoware_core"

pkgs=$(find src -name "package.xml")
for pkg in $pkgs; do
    echo "--- Checking $pkg ---"
    # Get all packages marked <depend>. For example:
    # <depend>dep_name</depend>
    deps=$(grep -oP '\s*<depend>\K[^\s]+' $pkg)
    dir=$(dirname $pkg)

    if [[ ! -f "$dir/CMakeLists.txt" ]]; then
        echo "Skipping package with no CMakeLists.txt"
        continue
    fi

    for dep in $deps; do
        # filter out buildtools (should not use <depend>)
        if [[ $(echo "$KNOWN_BUILDTOOLS" | grep "$dep" | wc -l) -gt 0 ]]; then
            echo "$dep should be rather be marked as <buildtool_depend>"
            continue
        fi

        # filter outament stuff (should not use <depend>)
        if [[ "$dep" =~ ^ament_.*$ ]]; then
            echo "$dep should be rather be marked as either <exec_depend> or <buildtool_depend>"
            continue
        fi

        # filter out python stuff (should not use <depend>)
        if [[ "$dep" =~ ^python-.*$ ]]; then
            echo "$dep should be rather be marked as either <exec_depend> or <buildtool_depend>"
            continue
        fi

        # By convention, dependency headers must be prefixed with
        # tier4_autoware_utils/geometry/geometry.hpp
        header_regex="$dep/.*"

        # System dependencies don't follow this rule.
        [[ "$dep" =~ libpcl-.*$ ]] && header_regex="pcl/.*"
        [[ "$dep" =~ libboost-.*$ ]] && header_regex="boost/.*"
        [[ "$dep" =~ libqt5-.*$ ]] && header_regex="Qt5/.*"
        [[ "$dep" == "qtbase5-dev" ]] && header_regex="Qt5/.*"
        [[ "$dep" == "libopencv-dev" ]] && header_regex="opencv/.*"
        [[ "$dep" == "pugixml-dev" ]] && header_regex="pugixml/.*"
        [[ "$dep" == "yaml_cpp_vendor" ]] && header_regex="yaml_cpp_vendor/.*"
        [[ "$dep" == "nlohmann-json-dev" ]] && header_regex="nlohmann-json/.*"
        [[ "$dep" == "range-v3" ]] && header_regex="range-v3/.*"
        [[ "$dep" == "libcxxpre-dev" ]] && header_regex="libcxxpre-dev/.*"
        [[ "$dep" == "eigen" ]] && header_regex="Eigen/.*"
        [[ "$dep" == "libnl-3-dev" ]] && header_regex="libnl-3-dev/.*"
        [[ "$dep" == "libpcap" ]] && header_regex="libpcap/.*"
        [[ "$dep" == "cgal" ]] && header_regex="CGAL/.*"
        [[ "$dep" == "osqp_vendor" ]] && header_regex="osqp_vendor/.*"
        [[ "$dep" == "magic_enum" ]] && header_regex="magic_enum/.*"
        [[ "$dep" == "geographiclib" ]] && header_regex="geographiclib/.*"
        # Some autoware packages don't follow the convention
    done
done
```

```

[[ "$dep" == "autoware_auto_common" ]] && header_
[[ "$dep" == "ndt_omp" ]] && header_regex="(pcl
[[ "$dep" == "planning_test_utils" ]] && header_

# Add more as needed...

# Look for C/C++ includes. For example:
# #include "tier4_autoware_utils/geometry/geomet
# Note: whether these includes are actually used
# There are many great tools for that.
include_regex="^#include [<\" ]$header_regex[>\" ]

# Dependencies defining custom messages may also
# By convention, these packages must be named "bu
if [[ "$dep" =~ .*_msgs$ ]] || [[ "$dep" == "bu
    grep -wIPrq "$dep" "$dir" --include \*.msg --i
    [[ $? -eq 0 ]] && continue # found!
fi

# Check if the dependency is included anywhere
grep -wIPrq "$include_regex" "$dir" \
    --include \*.c --include \*.cc --include \*.cp
[[ $? -eq 0 ]] && continue # found!

echo "$dep seems not to be used"

# /\ WARNING - DANGEROUS /\
# Uncomment to delete unused dependency!
# sed -i "/<depend>$dep</depend>/d" $pkg
done
echo ""
done

```

Obviously no script would ever be perfect. It may detect false positive or miss some. Furthermore, removing unused dependencies could break downstream packages if they did not declare their own dependencies correctly.

Running this script on `main` branch source tree give me 297 unused packages. That is a lot of work, but I think it is worth cleaning:

```

$ ./unused_deps.sh
--- Checking src/core/autoware_common/autoware_...t_

--- Checking src/core/autoware_common/autoware_cmake

--- Checking src/core/autoware_common/tmp/lanelet2_e
autoware_auto_planning_msgs seems not to be used
geographiclib seems not to be used
lanelet2_maps seems not to be used
lanelet2_validation seems not to be used

--- Checking src/core/autoware_common/autoware_utils
builtin_interfaces seems not to be used

--- Checking src/core/autoware_adapi_msgs/autoware_a

--- Checking src/core/autoware_adapi_msgs/autoware_a

--- Checking src/core/autoware_msgs/autoware_sensing

```

```
--- Checking src/core/autoware_msgs/autoware_localiz
--- Checking src/core/autoware_msgs/autoware_common_
rosidl_default_generators should be marked as <build
--- Checking src/core/autoware_msgs/autoware_percept
rosidl_default_generators should be marked as <build
--- Checking src/core/autoware_msgs/autoware_control
--- Checking src/core/autoware_msgs/autoware_map_msg
--- Checking src/core/autoware_msgs/autoware_plannin
--- Checking src/core/external/autoware_auto_msgs/au
--- Checking src/core/external/autoware_auto_msgs/au
std_msgs seems not to be used
--- Checking src/core/external/autoware_auto_msgs/au
--- Checking src/core/external/autoware_auto_msgs/au
std_msgs seems not to be used
--- Checking src/core/external/autoware_auto_msgs/au
autoware_auto_geometry_msgs seems not to be used
action_msgs seems not to be used

...
```

Definition of done

No more unused dependencies listed in `package.xml` files.



VRichardJP added **status:help-wanted**

Type: improvement labels on Apr 28, 2023



TakaHoribe commented on Apr 28, 2023

Contributor

So great...!



simon-t4 commented on Apr 28, 2023

This is a great initiative! Thanks!

In the exceptions section of the script, is it easy to add a list of verified dependencies per package? So that if people check a particular "unused dependency" and verify it is in fact used, that it can be excepted from the search in the future?



VRichardJP commented

on Apr 28, 2023 • edited ▼

Contributor

Author

@simon-t4 This is just a PoC script. By default, I just look for any `#include <dep_name/*. *>` in the C/C++ source files. But as you can see, there are quite a few listed "exceptions" (and I may have missed a few). Most exceptions are system libraries (e.g. `libboost-dev -> #include <boost/*. *>`), but there are also "special" dependencies that won't be used in the source code (e.g. `rosidl_default_generators` brings cmake macros). It is not difficult to add more cases/exceptions to avoid false positives.

To answer your question precisely, I have not met a case where a dependency is listed in the `package.xml` yet not found anywhere in any of the packages files. But even if it was the case, you could always add a simple rule such as `[["$dep" == "SomeDependency"]] && [["$pkg" == "SomePkg"]] && continue`. At the end of the day, the script is just a tool, it does not have to be "clean".



VRichardJP commented

on Apr 29, 2023 • edited ▼

Contributor

Author

I have updated the script above a bit and quickly fixed all reported dependencies. Then checked release build time before/after on my machine:

```
$ colcon build --symlink-install --event-handl
```



Before:

real	42m21.522s
user	257m55.620s
sys	17m22.792s



After:

real	42m17.404s
user	244m15.675s
sys	16m57.653s



The `real` time is not impacted much (not exactly sure why), but you can see `user` and `sys` times are reduced by a decent amount: 275m17 seconds of "cpu time" (user+sys) after compared to 287m17s before. That is +5% faster, just by removing unused stuff...!

There are a lot of `package.xml` to clean, any help to create PRs is welcomed :)

Detailed diff below:



```
=== src/core/autoware.core (git) ===
=== src/core/autoware_adapi_msgs (git) ===
=== src/core/autoware_common (git) ===
diff --git a/autoware_utils/package.xml b/autoware_utils/package.xml
index 4355dc8..e6b7fdf 100644
--- a/autoware_utils/package.xml
+++ b/autoware_utils/package.xml
@@ -12,7 +12,6 @@

<build_depend>autoware_cmake</build_depend>

- <depend>builtin_interfaces</depend>
<depend>rclcpp</depend>

<test_depend>ament_cmake_ros</test_depend>
diff --git a/tmp/lanelet2_extension/package.xml b/tmp/lanelet2_extension/package.xml
index 2a117b2..7dab023 100644
--- a/tmp/lanelet2_extension/package.xml
+++ b/tmp/lanelet2_extension/package.xml
@@ -12,18 +12,14 @@
<build_depend>autoware_cmake</build_depend>

<depend>autoware_auto_mapping_msgs</depend>
- <depend>autoware_auto_planning_msgs</depend>
<depend>autoware_planning_msgs</depend>
<depend>autoware_utils</depend>
- <depend>geographiclib</depend>
<depend>geometry_msgs</depend>
<depend>lanelet2_core</depend>
<depend>lanelet2_io</depend>
- <depend>lanelet2_maps</depend>
<depend>lanelet2_projection</depend>
<depend>lanelet2_routing</depend>
<depend>lanelet2_traffic_rules</depend>
- <depend>lanelet2_validation</depend>
<depend>pugixml-dev</depend>
<depend>range-v3</depend>
<depend>rclcpp</depend>
=== src/core/autoware_msgs (git) ===
diff --git a/autoware_common_msgs/package.xml b/autoware_common_msgs/package.xml
index 834e667..54e3fe3 100644
--- a/autoware_common_msgs/package.xml
+++ b/autoware_common_msgs/package.xml
@@ -8,8 +8,7 @@
<license>Apache License 2.0</license>

<buildtool_depend>ament_cmake_auto</buildtool_depend>
-
- <depend>rosidl_default_generators</depend>
+ <buildtool_depend>rosidl_default_generators</buildtool_depend>
```

```

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>ament_lint_common</test_depend>
diff --git a/autoware_perception_msgs/package.xml b/
index cb28552..e1f8791 100644
--- a/autoware_perception_msgs/package.xml
+++ b/autoware_perception_msgs/package.xml
@@ -8,9 +8,9 @@
    <license>Apache License 2.0</license>

    <buildtool_depend>ament_cmake_auto</buildtool_dep
+ <buildtool_depend>rosidl_default_generators</bui

    <depend>builtin_interfaces</depend>
- <depend>rosidl_default_generators</depend>

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>ament_lint_common</test_depend>
=== src/core/external/autoware_auto_msgs (git) ===
diff --git a/autoware_auto_control_msgs/package.xml
index cfddca3..0273e83 100644
--- a/autoware_auto_control_msgs/package.xml
+++ b/autoware_auto_control_msgs/package.xml
@@ -12,7 +12,6 @@
    <build_depend>rosidl_default_generators</build_de

    <depend>builtin_interfaces</depend>
- <depend>std_msgs</depend>

    <exec_depend>rosidl_default_runtime</exec_depend>

diff --git a/autoware_auto_planning_msgs/CMakeLists.
index 1cf6cc5..947c6b1 100644
--- a/autoware_auto_planning_msgs/CMakeLists.txt
+++ b/autoware_auto_planning_msgs/CMakeLists.txt
@@ -24,10 +24,10 @@
@@ -24,10 +24,10 @@ rosidl_generate_interfaces(${PRC
    "msg/PathPointWithLaneId.idl"
    "srv/ModifyTrajectory.idl"
    DEPENDENCIES
-   "autoware_auto_geometry_msgs"
+   # "autoware_auto_geometry_msgs"
    "autoware_auto_mapping_msgs"
    "builtin_interfaces"
-   "action_msgs"
+   # "action_msgs"
    "geometry_msgs"
    "nav_msgs"
    "std_msgs"
diff --git a/autoware_auto_planning_msgs/package.xml
index a5f129a..f0a4da6 100644
--- a/autoware_auto_planning_msgs/package.xml
+++ b/autoware_auto_planning_msgs/package.xml
@@ -11,10 +11,10 @@

    <build_depend>rosidl_default_generators</build_de

- <depend>autoware_auto_geometry_msgs</depend>
+ <!-- <depend>autoware_auto_geometry_msgs</depend>
    <depend>autoware_auto_mapping_msgs</depend>
    <depend>builtin_interfaces</depend>
- <depend>action_msgs</depend>
+ <!-- <depend>action_msgs</depend> -->
    <depend>geometry_msgs</depend>
    <depend>nav_msgs</depend>
    <depend>std_msgs</depend>
@@ -30,4 +30,3 @@

```

```

    <build_type>ament_cmake</build_type>
  </export>
</package>
-
diff --git a/autoware_auto_system_msgs/package.xml b/autoware_auto_system_msgs/package.xml
index a017f62..20fc5d1 100644
--- a/autoware_auto_system_msgs/package.xml
+++ b/autoware_auto_system_msgs/package.xml
@@ -13,7 +13,6 @@

    <depend>builtin_interfaces</depend>
    <depend>diagnostic_msgs</depend>
-   <depend>std_msgs</depend>

    <exec_depend>rosidl_default_runtime</exec_depend>

@@ -26,4 +25,3 @@
    <build_type>ament_cmake</build_type>
  </export>
</package>
-
=== src/launcher/autoware_launch (git) ===
=== src/param/autoware_individual_params (git) ===
=== src/sensor_component/external/sensor_component_c
=== src/sensor_component/external/tamagawa_imu_drive
=== src/sensor_component/external/velodyne_vls (git)
diff --git a/velodyne_driver/package.xml b/velodyne_driver/package.xml
index a07ccf0..a22e399 100644
--- a/velodyne_driver/package.xml
+++ b/velodyne_driver/package.xml
@@ -19,7 +19,6 @@

    <buildtool_depend>ament_cmake_auto</buildtool_dep

-   <depend>diagnostic_msgs</depend>
    <depend>diagnostic_updater</depend>
    <depend>libpcap</depend>
    <depend>rclcpp</depend>
diff --git a/velodyne_laserscan/package.xml b/velodyne_laserscan/package.xml
index c280164..03caf01 100755
--- a/velodyne_laserscan/package.xml
+++ b/velodyne_laserscan/package.xml
@@ -16,7 +16,7 @@

    <buildtool_depend>catkin</buildtool_depend>

-   <depend>roscpp</depend>
+   <!-- <depend>rclcpp</depend> -->
    <depend>nodelet</depend>
    <depend>sensor_msgs</depend>
    <depend>dynamic_reconfigure</depend>
diff --git a/velodyne_pointcloud/package.xml b/velodyne_pointcloud/package.xml
index 5bba469..478cc93 100644
--- a/velodyne_pointcloud/package.xml
+++ b/velodyne_pointcloud/package.xml
@@ -22,9 +22,7 @@

    <depend>angles</depend>
-   <depend>diagnostic_updater</depend>
    <depend>autoware_auto_vehicle_msgs</depend>
-   <depend>geometry_msgs</depend>
    <depend>libpcl-all-dev</depend>
    <depend>message_filters</depend>
    <depend>pcl_ros</depend>

```



```

@@ -38,9 +36,6 @@
    <depend>visualization_msgs</depend>
    <depend>yaml-cpp</depend>

-   <depend>cv_bridge</depend>
-   <depend>image_transport</depend>
-
    <!-- <exec_depend>velodyne_laserscan</exec_depend>

    <!-- <test_depend>roslint</test_depend>
=== src/sensor_kit/external/awsim_sensor_kit_launch
diff --git a/awsim_sensor_kit_description/package.xml
index 0a0239c..e37a123 100644
--- a/awsim_sensor_kit_description/package.xml
+++ b/awsim_sensor_kit_description/package.xml
@@ -9,8 +9,6 @@

    <buildtool_depend>ament_cmake_auto</buildtool_dep

-   <depend>velodyne_description</depend>
-
    <export>
      <build_type>ament_cmake</build_type>
    </export>
=== src/sensor_kit/sample_sensor_kit_launch (git) ==
diff --git a/sample_sensor_kit_description/package.xml
index 51b73a2..c16491e 100644
--- a/sample_sensor_kit_description/package.xml
+++ b/sample_sensor_kit_description/package.xml
@@ -11,8 +11,6 @@

    <buildtool_depend>ament_cmake_auto</buildtool_dep

-   <depend>velodyne_description</depend>
-
    <export>
      <build_type>ament_cmake</build_type>
    </export>
=== src/universe/autoware.universe (git) ===
diff --git a/common/autoware_ad_api_specs/package.xml
index ca3d998617..260f7e723a 100644
--- a/common/autoware_ad_api_specs/package.xml
+++ b/common/autoware_ad_api_specs/package.xml
@@ -14,6 +14,8 @@

    <build_depend>autoware_cmake</build_depend>

+   <depend>autoware_adapi_version_msgs</depend>
+
    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>

diff --git a/common/autoware_auto_geometry/package.xml
index e19ac4897a..ff3ecca882 100644
--- a/common/autoware_auto_geometry/package.xml
+++ b/common/autoware_auto_geometry/package.xml
@@ -11,8 +11,6 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>autoware_auto_common</depend>
-   <depend>autoware_auto_geometry_msgs</depend>
    <depend>autoware_auto_planning_msgs</depend>
    <depend>autoware_auto_tf2</depend>
    <depend>autoware_auto_vehicle_msgs</depend>

```

```

diff --git a/common/autoware_auto_tf2/package.xml b/
index c80ce45a21..9a87d42cdc 100644
--- a/common/autoware_auto_tf2/package.xml
+++ b/common/autoware_auto_tf2/package.xml
@@ -14,7 +14,7 @@
   <depend>autoware_auto_common</depend>
   <depend>autoware_auto_geometry_msgs</depend>
   <depend>autoware_auto_perception_msgs</depend>
-  <depend>autoware_auto_system_msgs</depend>
+  <!-- <depend>autoware_auto_system_msgs</depend> -
   <depend>geometry_msgs</depend>
   <depend>tf2</depend>
   <depend>tf2_geometry_msgs</depend>
diff --git a/common/autoware_point_types/package.xml
index 8829bd7538..df86c2392f 100644
--- a/common/autoware_point_types/package.xml
+++ b/common/autoware_point_types/package.xml
@@ -16,11 +16,11 @@

   <build_depend>autoware_cmake</build_depend>

-  <depend>ament_cmake_copyright</depend>
-  <depend>ament_cmake_cppcheck</depend>
-  <depend>ament_cmake_lint_cmake</depend>
-  <depend>ament_cmake_xmllint</depend>
-  <depend>pcl_ros</depend>
+  <!-- <depend>ament_cmake_copyright</depend> -->
+  <!-- <depend>ament_cmake_cppcheck</depend> -->
+  <!-- <depend>ament_cmake_lint_cmake</depend> -->
+  <!-- <depend>ament_cmake_xmllint</depend> -->
+  <!-- <depend>pcl_ros</depend> -->
   <depend>point_cloud_msg_wrapper</depend>

   <test_depend>ament_cmake_ros</test_depend>
diff --git a/common/bag_time_manager_rviz_plugin/package.xml
index b12c24b728..913c411cd2 100644
--- a/common/bag_time_manager_rviz_plugin/package.xml
+++ b/common/bag_time_manager_rviz_plugin/package.xml
@@ -10,10 +10,10 @@
   <buildtool_depend>ament_cmake_auto</buildtool_dep

   <build_depend>autoware_cmake</build_depend>
-  <depend>libqt5-core</depend>
-  <depend>libqt5-gui</depend>
-  <depend>libqt5-widgets</depend>
-  <depend>qtbase5-dev</depend>
+  <!-- <depend>libqt5-core</depend> -->
+  <!-- <depend>libqt5-gui</depend> -->
+  <!-- <depend>libqt5-widgets</depend> -->
+  <!-- <depend>qtbase5-dev</depend> -->
   <depend>rclcpp</depend>
   <depend>roscpp</depend>
   <depend>rviz_common</depend>
diff --git a/common/component_interface_specs/package.xml
index 54a0f1a66d..b5274fe97d 100644
--- a/common/component_interface_specs/package.xml
+++ b/common/component_interface_specs/package.xml
@@ -15,6 +15,7 @@
   <build_depend>autoware_cmake</build_depend>

   <depend>autoware_adapi_v1_msgs</depend>
+  <depend>tier4_control_msgs</depend>

   <test_depend>ament_lint_auto</test_depend>
   <test_depend>autoware_lint_common</test_depend>

```

```

diff --git a/common/component_interface_utils/package.xml
index b1f49fe40f..48e36ca6f7 100644
--- a/common/component_interface_utils/package.xml
+++ b/common/component_interface_utils/package.xml
@@ -17,7 +17,7 @@

    <depend>autoware_adapi_v1_msgs</depend>
    <depend>rclcpp</depend>
-   <depend>rclcpp_components</depend>
+   <!-- <depend>rclcpp_components</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/common/fake_test_node/package.xml b/common/fake_test_node/package.xml
index 8e919d719f..99278717cc 100644
--- a/common/fake_test_node/package.xml
+++ b/common/fake_test_node/package.xml
@@ -11,11 +11,11 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>ament_cmake_ros</depend>
-   <depend>autoware_auto_common</depend>
+   <!-- <depend>ament_cmake_ros</depend> -->
+   <!-- <depend>autoware_auto_common</depend> -->
    <depend>rclcpp</depend>
-   <depend>rclcpp_components</depend>
-   <depend>tf2</depend>
+   <!-- <depend>rclcpp_components</depend> -->
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_ros</depend>

    <test_depend>ament_index_python</test_depend>
diff --git a/common/motion_utils/package.xml b/common/motion_utils/package.xml
index ee6975e0ca..7c252d7671 100644
--- a/common/motion_utils/package.xml
+++ b/common/motion_utils/package.xml
@@ -24,16 +24,16 @@

    <build_depend>autoware_cmake</build_depend>

    <depend>autoware_auto_planning_msgs</depend>
-   <depend>autoware_auto_vehicle_msgs</depend>
-   <depend>builtin_interfaces</depend>
+   <!-- <depend>autoware_auto_vehicle_msgs</depend> -->
+   <!-- <depend>builtin_interfaces</depend> -->
    <depend>geometry_msgs</depend>
    <depend>interpolation</depend>
    <depend>libboost-dev</depend>
    <depend>rclcpp</depend>
    <depend>tf2</depend>
-   <depend>tf2_geometry_msgs</depend>
+   <!-- <depend>tf2_geometry_msgs</depend> -->
    <depend>tier4_autoware_utils</depend>
-   <depend>visualization_msgs</depend>
+   <!-- <depend>visualization_msgs</depend> -->

    <test_depend>ament_cmake_ros</test_depend>
    <test_depend>ament_lint_auto</test_depend>
diff --git a/common/osqp_interface/package.xml b/common/osqp_interface/package.xml
index 643611ca48..fff142231f 100644
--- a/common/osqp_interface/package.xml
+++ b/common/osqp_interface/package.xml
@@ -14,10 +14,10 @@

    <build_depend>autoware_cmake</build_depend>

```

```

- <depend>eigen</depend>
+ <!-- <depend>eigen</depend> -->
  <depend>osqp_vendor</depend>
  <depend>rclcpp</depend>
- <depend>rclcpp_components</depend>
+ <!-- <depend>rclcpp_components</depend> -->

  <test_depend>ament_cmake_ros</test_depend>
  <test_depend>ament_lint_auto</test_depend>
diff --git a/common/perception_utils/package.xml b/c
index 5d1fa5cae8..2b90ccacef 100644
--- a/common/perception_utils/package.xml
+++ b/common/perception_utils/package.xml
@@ -18,7 +18,6 @@
  <depend>geometry_msgs</depend>
  <depend>interpolation</depend>
  <depend>libboost-dev</depend>
- <depend>rclcpp</depend>
  <depend>tier4_autoware_utils</depend>

  <test_depend>ament_cmake_ros</test_depend>
diff --git a/common/polar_grid/package.xml b/common/
index 75118d09ef..0b2e4a1818 100644
--- a/common/polar_grid/package.xml
+++ b/common/polar_grid/package.xml
@@ -11,13 +11,13 @@

  <build_depend>autoware_cmake</build_depend>

- <depend>libqt5-core</depend>
- <depend>libqt5-gui</depend>
- <depend>libqt5-widgets</depend>
- <depend>qtbase5-dev</depend>
+ <!-- <depend>libqt5-core</depend> -->
+ <!-- <depend>libqt5-gui</depend> -->
+ <!-- <depend>libqt5-widgets</depend> -->
+ <!-- <depend>qtbase5-dev</depend> -->
  <depend>rviz_common</depend>
- <depend>rviz_default_plugins</depend>
- <depend>rviz_ogre_vendor</depend>
+ <!-- <depend>rviz_default_plugins</depend> -->
+ <!-- <depend>rviz_ogre_vendor</depend> -->

  <test_depend>ament_lint_auto</test_depend>
  <test_depend>autoware_lint_common</test_depend>
diff --git a/common/rtc_manager_rviz_plugin/package.
index 6987e63c3c..f9765e9cd5 100644
--- a/common/rtc_manager_rviz_plugin/package.xml
+++ b/common/rtc_manager_rviz_plugin/package.xml
@@ -19,8 +19,8 @@
  <depend>qtbase5-dev</depend>
  <depend>rclcpp</depend>
  <depend>rviz_common</depend>
- <depend>tier4_external_api_msgs</depend>
- <depend>tier4_planning_msgs</depend>
+ <!-- <depend>tier4_external_api_msgs</depend> -->
+ <!-- <depend>tier4_planning_msgs</depend> -->
  <depend>tier4_rtc_msgs</depend>
  <depend>unique_identifier_msgs</depend>

diff --git a/common/tier4_adapi_rviz_plugin/package.
index a45a258983..4b82f1d201 100644
--- a/common/tier4_adapi_rviz_plugin/package.xml
+++ b/common/tier4_adapi_rviz_plugin/package.xml

```

@@ -13,11 +13,11 @@

```
<build_depend>autoware_cmake</build_depend>
```

```
- <depend>libqt5-core</depend>
- <depend>libqt5-gui</depend>
- <depend>libqt5-widgets</depend>
- <depend>rclcpp</depend>
- <depend>rviz_common</depend>
+ <!-- <depend>libqt5-core</depend> -->
+ <!-- <depend>libqt5-gui</depend> -->
+ <!-- <depend>libqt5-widgets</depend> -->
+ <!-- <depend>rclcpp</depend> -->
+ <!-- <depend>rviz_common</depend> -->
  <depend>rviz_default_plugins</depend>
```

```
<test_depend>ament_lint_auto</test_depend>
```

diff --git a/common/tier4_autoware_utils/package.xml

index 9e648c49e0..90c42708c5 100644

--- a/common/tier4_autoware_utils/package.xml

+++ b/common/tier4_autoware_utils/package.xml

@@ -16,8 +16,8 @@

```
<depend>autoware_auto_perception_msgs</depend>
```

```
<depend>autoware_auto_planning_msgs</depend>
```

```
- <depend>autoware_auto_vehicle_msgs</depend>
```

```
- <depend>builtin_interfaces</depend>
```

```
+ <!-- <depend>autoware_auto_vehicle_msgs</depend>
```

```
+ <!-- <depend>builtin_interfaces</depend> -->
```

```
<depend>diagnostic_msgs</depend>
```

```
<depend>geometry_msgs</depend>
```

```
<depend>libboost-dev</depend>
```

diff --git a/common/tier4_control_rviz_plugin/package.xml

index 6b765e0654..481dab9f46 100644

--- a/common/tier4_control_rviz_plugin/package.xml

+++ b/common/tier4_control_rviz_plugin/package.xml

@@ -18,9 +18,9 @@

```
<depend>libqt5-widgets</depend>
```

```
<depend>qtbase5-dev</depend>
```

```
<depend>rviz_common</depend>
```

```
- <depend>rviz_default_plugins</depend>
```

```
- <depend>rviz_ogre_vendor</depend>
```

```
- <depend>tier4_autoware_utils</depend>
```

```
+ <!-- <depend>rviz_default_plugins</depend> -->
```

```
+ <!-- <depend>rviz_ogre_vendor</depend> -->
```

```
+ <!-- <depend>tier4_autoware_utils</depend> -->
```

```
<depend>tier4_control_msgs</depend>
```

```
<depend>tier4_external_api_msgs</depend>
```

diff --git a/common/tier4_debug_rviz_plugin/package.xml

index bb1189c025..0aabb7c6f7 100644

--- a/common/tier4_debug_rviz_plugin/package.xml

+++ b/common/tier4_debug_rviz_plugin/package.xml

@@ -17,7 +17,7 @@

```
<depend>qtbase5-dev</depend>
```

```
<depend>rclcpp</depend>
```

```
<depend>rviz_common</depend>
```

```
- <depend>rviz_default_plugins</depend>
```

```
+ <!-- <depend>rviz_default_plugins</depend> -->
```

```
<depend>rviz_rendering</depend>
```

```
<depend>tier4_debug_msgs</depend>
```

diff --git a/common/tier4_debug_tools/package.xml b/

index d4a01d67a1..478d3b5d93 100644

--- a/common/tier4_debug_tools/package.xml

```

+++ b/common/tier4_debug_tools/package.xml
@@ -16,8 +16,8 @@
    <depend>motion_utils</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>tf2_ros</depend>
-   <depend>tier4_autoware_utils</depend>
+   <!-- <depend>tf2_ros</depend> -->
+   <!-- <depend>tier4_autoware_utils</depend> -->
    <depend>tier4_debug_msgs</depend>

    <exec_depend>launch_ros</exec_depend>
diff --git a/common/tier4_localization_rviz_plugin/package.xml
index 6ef58b8e84..6fef547288 100644
--- a/common/tier4_localization_rviz_plugin/package.xml
+++ b/common/tier4_localization_rviz_plugin/package.xml
@@ -15,14 +15,14 @@
    <build_depend>autoware_cmake</build_depend>

    <depend>geometry_msgs</depend>
-   <depend>libqt5-core</depend>
-   <depend>libqt5-gui</depend>
-   <depend>libqt5-widgets</depend>
-   <depend>qtbase5-dev</depend>
-   <depend>rclcpp</depend>
+   <!-- <depend>libqt5-core</depend> -->
+   <!-- <depend>libqt5-gui</depend> -->
+   <!-- <depend>libqt5-widgets</depend> -->
+   <!-- <depend>qtbase5-dev</depend> -->
+   <!-- <depend>rclcpp</depend> -->
    <depend>rviz_common</depend>
-   <depend>rviz_default_plugins</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>rviz_default_plugins</depend> -->
+   <!-- <depend>tf2_ros</depend> -->
    <depend>vehicle_info_util</depend>

    <test_depend>ament_lint_auto</test_depend>
diff --git a/common/tier4_planning_rviz_plugin/package.xml
index b4f49033c1..b05d31fc2f 100644
--- a/common/tier4_planning_rviz_plugin/package.xml
+++ b/common/tier4_planning_rviz_plugin/package.xml
@@ -18,7 +18,7 @@
    <depend>libqt5-core</depend>
    <depend>libqt5-gui</depend>
    <depend>libqt5-widgets</depend>
-   <depend>motion_utils</depend>
+   <!-- <depend>motion_utils</depend> -->
    <depend>qtbase5-dev</depend>
    <depend>rclcpp</depend>
    <depend>rviz_common</depend>
diff --git a/common/tier4_simulated_clock_rviz_plugin/package.xml
index d7fd09e57b..7fe9aa1396 100644
--- a/common/tier4_simulated_clock_rviz_plugin/package.xml
+++ b/common/tier4_simulated_clock_rviz_plugin/package.xml
@@ -11,10 +11,10 @@
    <build_depend>autoware_cmake</build_depend>

-   <depend>libqt5-core</depend>
-   <depend>libqt5-gui</depend>
-   <depend>libqt5-widgets</depend>
-   <depend>qtbase5-dev</depend>
+   <!-- <depend>libqt5-core</depend> -->
+   <!-- <depend>libqt5-gui</depend> -->

```

```

+ <!-- <depend>libqt5-widgets</depend> -->
+ <!-- <depend>qtbase5-dev</depend> -->
  <depend>rclcpp</depend>
  <depend>roscpp</depend>
  <depend>rviz_common</depend>
diff --git a/common/tier4_state_rviz_plugin/package.
index 6923bc5647..03c91d61ee 100644
--- a/common/tier4_state_rviz_plugin/package.xml
+++ b/common/tier4_state_rviz_plugin/package.xml
@@ -13,7 +13,7 @@
  <build_depend>autoware_cmake</build_depend>

  <depend>autoware_adapi_v1_msgs</depend>
- <depend>autoware_auto_system_msgs</depend>
+ <!-- <depend>autoware_auto_system_msgs</depend> -
  <depend>autoware_auto_vehicle_msgs</depend>
  <depend>libqt5-core</depend>
  <depend>libqt5-gui</depend>
@@ -21,7 +21,7 @@
  <depend>qtbase5-dev</depend>
  <depend>rclcpp</depend>
  <depend>rviz_common</depend>
- <depend>tier4_control_msgs</depend>
+ <!-- <depend>tier4_control_msgs</depend> -->
  <depend>tier4_external_api_msgs</depend>
  <depend>tier4_planning_msgs</depend>

diff --git a/common/tier4_vehicle_rviz_plugin/package.
index 15d6609248..530c996b0a 100644
--- a/common/tier4_vehicle_rviz_plugin/package.xml
+++ b/common/tier4_vehicle_rviz_plugin/package.xml
@@ -17,8 +17,8 @@
  <depend>libqt5-widgets</depend>
  <depend>qtbase5-dev</depend>
  <depend>rviz_common</depend>
- <depend>rviz_default_plugins</depend>
- <depend>rviz_ogre_vendor</depend>
+ <!-- <depend>rviz_default_plugins</depend> -->
+ <!-- <depend>rviz_ogre_vendor</depend> -->
  <depend>tier4_ament_cmake</depend>

  <test_depend>ament_lint_auto</test_depend>
diff --git a/common/tvm_utility/package.xml b/common
index 9bc64ff554..2b24823f78 100644
--- a/common/tvm_utility/package.xml
+++ b/common/tvm_utility/package.xml
@@ -30,7 +30,7 @@
  <build_depend>autoware_cmake</build_depend>

  <depend>ament_index_cpp</depend>
- <depend>libopenblas-dev</depend>
+ <!-- <depend>libopenblas-dev</depend> -->
  <depend>libopencv-dev</depend>
  <depend>tvm_vendor</depend>

diff --git a/control/autonomous_emergency_braking/pa
index e4e7da168b..d796a845d0 100644
--- a/control/autonomous_emergency_braking/package.
+++ b/control/autonomous_emergency_braking/package.
@@ -12,20 +12,20 @@
  <build_depend>autoware_cmake</build_depend>

  <depend>autoware_auto_control_msgs</depend>
+ <!-- <depend>autoware_auto_control_msgs</depend>

```



```

    <depend>autoware_auto_vehicle_msgs</depend>
    <depend>diagnostic_updater</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>motion_utils</depend>
    <depend>nav_msgs</depend>
    <depend>pcl_conversions</depend>
    <depend>pcl_ros</depend>
-   <depend>pointcloud_preprocessor</depend>
+   <!-- <depend>pointcloud_preprocessor</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
    <depend>tf2_eigen</depend>
    <depend>tf2_geometry_msgs</depend>
diff --git a/control/control_performance_analysis/package.xml
index 4c83864bf9..22197e8e18 100644
--- a/control/control_performance_analysis/package.xml
+++ b/control/control_performance_analysis/package.xml
@@ -33,12 +33,12 @@
    <depend>nav_msgs</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>sensor_msgs</depend>
+   <!-- <depend>sensor_msgs</depend> -->
    <depend>signal_processing</depend>
    <depend>std_msgs</depend>
    <depend>tf2</depend>
-   <depend>tf2_eigen</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>tf2_eigen</depend> -->
+   <!-- <depend>tf2_ros</depend> -->
    <depend>tier4_autoware_utils</depend>
    <depend>vehicle_info_util</depend>
    <exec_depend>builtin_interfaces</exec_depend>
diff --git a/control/external_cmd_selector/package.xml
index f6ca2e165b..d084a9cfec 100644
--- a/control/external_cmd_selector/package.xml
+++ b/control/external_cmd_selector/package.xml
@@ -22,10 +22,10 @@
    <depend>autoware_auto_vehicle_msgs</depend>
    <depend>diagnostic_updater</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tier4_auto_msgs_converter</depend>
    <depend>tier4_control_msgs</depend>
    <depend>tier4_external_api_msgs</depend>
diff --git a/control/joy_controller/package.xml b/control/joy_controller/package.xml
index 7244c24320..b5054c5858 100644
--- a/control/joy_controller/package.xml
+++ b/control/joy_controller/package.xml
@@ -23,12 +23,12 @@
    <depend>autoware_auto_control_msgs</depend>
    <depend>autoware_auto_vehicle_msgs</depend>
    <depend>geometry_msgs</depend>
-   <depend>joy</depend>

```



```

+ <!-- <depend>joy</depend> -->
  <depend>nav_msgs</depend>
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>sensor_msgs</depend>
- <depend>std_srvs</depend>
+ <!-- <depend>std_srvs</depend> -->
  <depend>tier4_api_utils</depend>
  <depend>tier4_control_msgs</depend>
  <depend>tier4_external_api_msgs</depend>
diff --git a/control/lane_departure_checker/package.
index 0ade872d2a..b7f18b8722 100644
--- a/control/lane_departure_checker/package.xml
+++ b/control/lane_departure_checker/package.xml
@@ -26,9 +26,9 @@
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>tf2</depend>
- <depend>tf2_eigen</depend>
- <depend>tf2_geometry_msgs</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>tf2_eigen</depend> -->
+ <!-- <depend>tf2_geometry_msgs</depend> -->
+ <!-- <depend>tf2_ros</depend> -->
  <depend>tier4_autoware_utils</depend>
  <depend>tier4_debug_msgs</depend>
  <depend>vehicle_info_util</depend>
diff --git a/control/mpc_lateral_controller/package.
index 04a80ef9d9..b210a027c3 100644
--- a/control/mpc_lateral_controller/package.xml
+++ b/control/mpc_lateral_controller/package.xml
@@ -21,16 +21,16 @@
  <depend>autoware_auto_control_msgs</depend>
  <depend>autoware_auto_planning_msgs</depend>
  <depend>autoware_auto_vehicle_msgs</depend>
- <depend>diagnostic_msgs</depend>
- <depend>diagnostic_updater</depend>
- <depend>eigen</depend>
+ <!-- <depend>diagnostic_msgs</depend> -->
+ <!-- <depend>diagnostic_updater</depend> -->
+ <!-- <depend>eigen</depend> -->
  <depend>geometry_msgs</depend>
  <depend>interpolation</depend>
  <depend>motion_utils</depend>
  <depend>osqp_interface</depend>
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->
  <depend>tf2</depend>
  <depend>tf2_ros</depend>
  <depend>tier4_autoware_utils</depend>
diff --git a/control/obstacle_collision_checker/pack
index e7a51abdac..3c14db972c 100644
--- a/control/obstacle_collision_checker/package.xml
+++ b/control/obstacle_collision_checker/package.xml
@@ -24,17 +24,17 @@
  <depend>autoware_auto_planning_msgs</depend>
  <depend>boost</depend>
  <depend>diagnostic_updater</depend>
- <depend>eigen</depend>
+ <!-- <depend>eigen</depend> -->
  <depend>geometry_msgs</depend>
  <depend>nav_msgs</depend>
  <depend>pcl_ros</depend>

```

```

    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
    <depend>tf2_eigen</depend>
-   <depend>tf2_geometry_msgs</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>tf2_geometry_msgs</depend> -->
+   <!-- <depend>tf2_ros</depend> -->
    <depend>tier4_autoware_utils</depend>
    <depend>vehicle_info_util</depend>

diff --git a/control/operation_mode_transition_manager/package.xml b/control/operation_mode_transition_manager/package.xml
index 86dc23b6c0..739f6672a6 100644
--- a/control/operation_mode_transition_manager/package.xml
+++ b/control/operation_mode_transition_manager/package.xml
@@ -12,19 +12,19 @@
    <buildtool_depend>catkin</buildtool_depend>
    <build_depend>roscpp</build_depend>
    <build_export_depend>roscpp</build_export_depend>
    <exec_depend>roscpp</exec_depend>
    <exec_depend>roscpp_serialization</exec_depend>
    <depend>autoware_auto_control_msgs</depend>
-   <depend>autoware_auto_system_msgs</depend>
+   <!-- <depend>autoware_auto_system_msgs</depend> -->
    <depend>autoware_auto_vehicle_msgs</depend>
    <depend>component_interface_specs</depend>
    <depend>component_interface_utils</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>motion_utils</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_srvs</depend>
+   <!-- <depend>std_srvs</depend> -->
    <depend>tier4_autoware_utils</depend>
    <depend>tier4_control_msgs</depend>
    <depend>tier4_system_msgs</depend>
-   <depend>tier4_vehicle_msgs</depend>
+   <!-- <depend>tier4_vehicle_msgs</depend> -->
    <depend>vehicle_info_util</depend>

    <test_depend>ament_cmake_gtest</test_depend>

diff --git a/control/pid_longitudinal_controller/package.xml b/control/pid_longitudinal_controller/package.xml
index e8825eaab1..cf48fb8f79 100644
--- a/control/pid_longitudinal_controller/package.xml
+++ b/control/pid_longitudinal_controller/package.xml
@@ -22,15 +22,15 @@
    <buildtool_depend>catkin</buildtool_depend>
    <build_depend>roscpp</build_depend>
    <build_export_depend>roscpp</build_export_depend>
    <exec_depend>roscpp</exec_depend>
    <exec_depend>roscpp_serialization</exec_depend>
    <depend>autoware_auto_control_msgs</depend>
    <depend>autoware_auto_planning_msgs</depend>
    <depend>autoware_auto_vehicle_msgs</depend>
-   <depend>diagnostic_msgs</depend>
+   <!-- <depend>diagnostic_msgs</depend> -->
    <depend>diagnostic_updater</depend>
-   <depend>eigen</depend>
+   <!-- <depend>eigen</depend> -->
    <depend>geometry_msgs</depend>
    <depend>interpolation</depend>
    <depend>motion_utils</depend>
    <depend>rclcpp</depend>
-   <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>rclcpp_components</depend> -->
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>

```

```

diff --git a/control/pure_pursuit/package.xml b/control/pure_pursuit/package.xml
index d2b3ed292c..2216d8fc11 100644
--- a/control/pure_pursuit/package.xml
+++ b/control/pure_pursuit/package.xml
@@ -23,8 +23,8 @@
   <depend>nav_msgs</depend>
   <depend>rclcpp</depend>
   <depend>rclcpp_components</depend>
-  <depend>sensor_msgs</depend>
-  <depend>std_msgs</depend>
+  <!-- <depend>sensor_msgs</depend> -->
+  <!-- <depend>std_msgs</depend> -->
   <depend>tf2</depend>
   <depend>tf2_eigen</depend>
   <depend>tf2_geometry_msgs</depend>
diff --git a/control/trajectory_follower_base/package.xml b/control/trajectory_follower_base/package.xml
index b3e6a53228..9694e66ef3 100644
--- a/control/trajectory_follower_base/package.xml
+++ b/control/trajectory_follower_base/package.xml
@@ -24,21 +24,21 @@
   <depend>autoware_auto_control_msgs</depend>
   <depend>autoware_auto_planning_msgs</depend>
   <depend>autoware_auto_vehicle_msgs</depend>
-  <depend>diagnostic_msgs</depend>
-  <depend>diagnostic_updater</depend>
-  <depend>eigen</depend>
+  <!-- <depend>diagnostic_msgs</depend> -->
+  <!-- <depend>diagnostic_updater</depend> -->
+  <!-- <depend>eigen</depend> -->
   <depend>geometry_msgs</depend>
-  <depend>interpolation</depend>
-  <depend>motion_utils</depend>
-  <depend>osqp_interface</depend>
+  <!-- <depend>interpolation</depend> -->
+  <!-- <depend>motion_utils</depend> -->
+  <!-- <depend>osqp_interface</depend> -->
   <depend>rclcpp</depend>
-  <depend>rclcpp_components</depend>
-  <depend>std_msgs</depend>
-  <depend>tf2</depend>
-  <depend>tf2_ros</depend>
-  <depend>tier4_aware_utils</depend>
-  <depend>tier4_debug_msgs</depend>
-  <depend>vehicle_info_util</depend>
+  <!-- <depend>rclcpp_components</depend> -->
+  <!-- <depend>std_msgs</depend> -->
+  <!-- <depend>tf2</depend> -->
+  <!-- <depend>tf2_ros</depend> -->
+  <!-- <depend>tier4_aware_utils</depend> -->
+  <!-- <depend>tier4_debug_msgs</depend> -->
+  <!-- <depend>vehicle_info_util</depend> -->

   <test_depend>ament_cmake_ros</test_depend>
   <test_depend>ament_lint_auto</test_depend>
diff --git a/control/trajectory_follower_node/package.xml b/control/trajectory_follower_node/package.xml
index 303df922a2..b50aaaebb7 100644
--- a/control/trajectory_follower_node/package.xml
+++ b/control/trajectory_follower_node/package.xml
@@ -23,7 +23,7 @@
   <depend>autoware_adapi_v1_msgs</depend>
   <depend>autoware_auto_control_msgs</depend>
   <depend>autoware_auto_planning_msgs</depend>
-  <depend>autoware_auto_system_msgs</depend>
+  <!-- <depend>autoware_auto_system_msgs</depend> -->
   <depend>autoware_auto_vehicle_msgs</depend>

```

```

    <depend>motion_utils</depend>
    <depend>mpc_lateral_controller</depend>
diff --git a/control/vehicle_cmd_gate/package.xml b/
index 92d6911c8f..65ff9f6004 100644
--- a/control/vehicle_cmd_gate/package.xml
+++ b/control/vehicle_cmd_gate/package.xml
@@ -16,7 +16,7 @@

    <depend>autoware_adapi_v1_msgs</depend>
    <depend>autoware_auto_control_msgs</depend>
-   <depend>autoware_auto_system_msgs</depend>
+   <!-- <depend>autoware_auto_system_msgs</depend> -
    <depend>autoware_auto_vehicle_msgs</depend>
    <depend>component_interface_specs</depend>
    <depend>component_interface_utils</depend>
diff --git a/evaluator/diagnostic_converter/package.
index c561cfcac6..4464ca7157 100644
--- a/evaluator/diagnostic_converter/package.xml
+++ b/evaluator/diagnostic_converter/package.xml
@@ -14,7 +14,7 @@
    <build_depend>autoware_cmake</build_depend>

    <depend>diagnostic_msgs</depend>
-   <depend>pluginlib</depend>
+   <!-- <depend>pluginlib</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>tier4_simulation_msgs</depend>
diff --git a/evaluator/kinematic_evaluator/package.
index e761a53cb6..7cff32726a 100644
--- a/evaluator/kinematic_evaluator/package.xml
+++ b/evaluator/kinematic_evaluator/package.xml
@@ -12,15 +12,15 @@
    <build_depend>autoware_cmake</build_depend>

-   <depend>autoware_auto_perception_msgs</depend>
-   <depend>autoware_auto_planning_msgs</depend>
+   <!-- <depend>autoware_auto_perception_msgs</deper
+   <!-- <depend>autoware_auto_planning_msgs</depend>
    <depend>diagnostic_msgs</depend>
-   <depend>eigen</depend>
+   <!-- <depend>eigen</depend> -->
    <depend>geometry_msgs</depend>
    <depend>nav_msgs</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>tf2</depend>
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>

diff --git a/evaluator/localization_evaluator/package
index 7f99d10023..49953f6506 100644
--- a/evaluator/localization_evaluator/package.xml
+++ b/evaluator/localization_evaluator/package.xml
@@ -12,16 +12,16 @@
    <build_depend>autoware_cmake</build_depend>

-   <depend>autoware_auto_perception_msgs</depend>
-   <depend>autoware_auto_planning_msgs</depend>
+   <!-- <depend>autoware_auto_perception_msgs</deper
+   <!-- <depend>autoware_auto_planning_msgs</depend>
    <depend>diagnostic_msgs</depend>

```

```

- <depend>eigen</depend>
+ <!-- <depend>eigen</depend> -->
  <depend>geometry_msgs</depend>
  <depend>message_filters</depend>
  <depend>nav_msgs</depend>
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
- <depend>tf2</depend>
+ <!-- <depend>tf2</depend> -->
  <depend>tf2_ros</depend>
  <depend>tier4_autoware_utils</depend>

diff --git a/evaluator/planning_evaluator/package.xml
index ef2bca288c..50cabb0811 100644
--- a/evaluator/planning_evaluator/package.xml
+++ b/evaluator/planning_evaluator/package.xml
@@ -18,14 +18,14 @@
  <depend>autoware_auto_planning_msgs</depend>
  <depend>autoware_planning_msgs</depend>
  <depend>diagnostic_msgs</depend>
- <depend>eigen</depend>
+ <!-- <depend>eigen</depend> -->
  <depend>geometry_msgs</depend>
  <depend>motion_utils</depend>
  <depend>nav_msgs</depend>
- <depend>pluginlib</depend>
+ <!-- <depend>pluginlib</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
- <depend>tf2</depend>
+ <!-- <depend>tf2</depend> -->
  <depend>tf2_ros</depend>
  <depend>tier4_autoware_utils</depend>

diff --git a/localization/ekf_localizer/package.xml
index 129798e0e8..0c8a9d943b 100644
--- a/localization/ekf_localizer/package.xml
+++ b/localization/ekf_localizer/package.xml
@@ -22,8 +22,8 @@
  <depend>kalman_filter</depend>
  <depend>nav_msgs</depend>
  <depend>rclcpp</depend>
- <depend>sensor_msgs</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>sensor_msgs</depend> -->
+ <!-- <depend>std_msgs</depend> -->
  <depend>std_srvs</depend>
  <depend>tf2</depend>
  <depend>tf2_ros</depend>

diff --git a/localization/gyro_odometer/package.xml
index 5aa85a8c4a..edcac70e19 100644
--- a/localization/gyro_odometer/package.xml
+++ b/localization/gyro_odometer/package.xml
@@ -15,10 +15,10 @@
  <depend>fmt</depend>
  <depend>geometry_msgs</depend>
  <depend>sensor_msgs</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->
  <depend>tf2</depend>
  <depend>tf2_geometry_msgs</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>tf2_ros</depend> -->
  <depend>tier4_autoware_utils</depend>

```

```

<exec_depend>rclcpp</exec_depend>
diff --git a/map/map_height_fitter/package.xml b/map/map_height_fitter/package.xml
index dfb6a88944..ca04be31a3 100644
--- a/map/map_height_fitter/package.xml
+++ b/map/map_height_fitter/package.xml
@@ -19,7 +19,6 @@
   <depend>pcl_conversions</depend>
   <depend>rclcpp</depend>
   <depend>sensor_msgs</depend>
-  <depend>tf2</depend>
   <depend>tf2_geometry_msgs</depend>
   <depend>tf2_ros</depend>

diff --git a/map/map_loader/package.xml b/map/map_loader/package.xml
index 4fa5cc4156..f87fe032dd 100644
--- a/map/map_loader/package.xml
+++ b/map/map_loader/package.xml
@@ -21,13 +21,8 @@
   <depend>lanelet2_extension</depend>
   <depend>libpcl-all-dev</depend>
   <depend>pcl_conversions</depend>
-  <depend>pcl_ros</depend>
   <depend>rclcpp</depend>
   <depend>rclcpp_components</depend>
-  <depend>std_msgs</depend>
-  <depend>tf2_geometry_msgs</depend>
-  <depend>tf2_ros</depend>
-  <depend>tier4_aware_utils</depend>
   <depend>visualization_msgs</depend>
   <depend>yaml-cpp</depend>

diff --git a/map/util/lanelet2_map_preprocessor/CMakeLists.txt b/map/util/lanelet2_map_preprocessor/CMakeLists.txt
index caa1d27b3e..8a6b16c050 100644
--- a/map/util/lanelet2_map_preprocessor/CMakeLists.txt
+++ b/map/util/lanelet2_map_preprocessor/CMakeLists.txt
@@ -4,12 +4,18 @@
project(lanelet2_map_preprocessor)

find_package(autoware_cmake REQUIRED)
autoware_package()

+find_package(PCL REQUIRED COMPONENTS common io kdtree)
+
include_directories(
  include
  SYSTEM
  ${PCL_INCLUDE_DIRS}
)

+link_libraries(
+  ${PCL_LIBRARIES}
+)
+
ament_auto_add_executable(fix_z_value_by_pcd src/fix_z_value_by_pcd.cpp)
ament_auto_add_executable(transform_maps src/transform_maps.cpp)
ament_auto_add_executable(merge_close_lines src/merge_close_lines.cpp)
diff --git a/map/util/lanelet2_map_preprocessor/package.xml b/map/util/lanelet2_map_preprocessor/package.xml
index 216dffe817..f8c6518119 100644
--- a/map/util/lanelet2_map_preprocessor/package.xml
+++ b/map/util/lanelet2_map_preprocessor/package.xml
@@ -12,8 +12,8 @@
   <build_depend>autoware_cmake</build_depend>

   <depend>lanelet2_extension</depend>
-  <depend>pcl_ros</depend>
   <depend>rclcpp</depend>
+  <depend>libpcl-all-dev</depend>

```

```

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/bytetrack/package.xml b/perception/bytetrack/package.xml
index 3968d6cb97..841b7a3055 100644
--- a/perception/bytetrack/package.xml
+++ b/perception/bytetrack/package.xml
@@ -16,16 +16,16 @@
    <build_depend>autoware_cmake</build_depend>

    <depend>autoware_auto_perception_msgs</depend>
-   <depend>cuda_utils</depend>
+   <!-- <depend>cuda_utils</depend> -->
    <depend>cv_bridge</depend>
-   <depend>eigen</depend>
+   <!-- <depend>eigen</depend> -->
    <depend>image_transport</depend>
    <depend>libboost-system-dev</depend>
    <depend>libopencv-dev</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>sensor_msgs</depend>
-   <depend>tensorrt_common</depend>
+   <!-- <depend>sensor_msgs</depend> -->
+   <!-- <depend>tensorrt_common</depend> -->
    <depend>tier4_perception_msgs</depend>

    <test_depend>ament_lint_auto</test_depend>
diff --git a/perception/compare_map_segmentation/package.xml b/perception/compare_map_segmentation/package.xml
index bd2bccf69e..3188aced94 100644
--- a/perception/compare_map_segmentation/package.xml
+++ b/perception/compare_map_segmentation/package.xml
@@ -28,7 +28,7 @@
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
-   <depend>tier4_autoware_utils</depend>
+   <!-- <depend>tier4_autoware_utils</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/crosswalk_traffic_light_estimator/package.xml b/perception/crosswalk_traffic_light_estimator/package.xml
index d4147643eb..56d4a05236 100644
--- a/perception/crosswalk_traffic_light_estimator/package.xml
+++ b/perception/crosswalk_traffic_light_estimator/package.xml
@@ -13,7 +13,7 @@
    <depend>autoware_auto_mapping_msgs</depend>
    <depend>autoware_auto_perception_msgs</depend>
-   <depend>autoware_auto_planning_msgs</depend>
+   <!-- <depend>autoware_auto_planning_msgs</depend> -->
    <depend>autoware_planning_msgs</depend>
    <depend>lanelet2_extension</depend>
    <depend>rclcpp</depend>
diff --git a/perception/detected_object_validation/package.xml b/perception/detected_object_validation/package.xml
index a2d82f0fac..9a13785be1 100644
--- a/perception/detected_object_validation/package.xml
+++ b/perception/detected_object_validation/package.xml
@@ -16,7 +16,7 @@
    <depend>autoware_auto_mapping_msgs</depend>
    <depend>autoware_auto_perception_msgs</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>lanelet2_extension</depend>

```



```

    <depend>message_filters</depend>
    <depend>nav_msgs</depend>
@@ -24,11 +24,11 @@
    <depend>perception_utils</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>tf2</depend>
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_geometry_msgs</depend>
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>
-   <depend>tier4_perception_msgs</depend>
+   <!-- <depend>tier4_perception_msgs</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/detection_by_tracker/package
index 55398adef1..06186cbe2a 100644
--- a/perception/detection_by_tracker/package.xml
+++ b/perception/detection_by_tracker/package.xml
@@ -15,8 +15,8 @@

    <depend>eigen</depend>
    <depend>euclidean_cluster</depend>
-   <depend>libpcl-all-dev</depend>
-   <depend>pcl_conversions</depend>
+   <!-- <depend>libpcl-all-dev</depend> -->
+   <!-- <depend>pcl_conversions</depend> -->
    <depend>perception_utils</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
diff --git a/perception/elevation_map_loader/package
index 0e2ea81f9f..69bb8c107e 100644
--- a/perception/elevation_map_loader/package.xml
+++ b/perception/elevation_map_loader/package.xml
@@ -24,8 +24,8 @@
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>rosbag2_storage_default_plugins</depend>
-   <depend>tf2_geometry_msgs</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>tf2_geometry_msgs</depend> -->
+   <!-- <depend>tf2_ros</depend> -->
    <depend>tier4_autoware_utils</depend>
    <depend>tier4_external_api_msgs</depend>

diff --git a/perception/euclidean_cluster/package.xml
index d99c923d91..4f0c9ae60a 100644
--- a/perception/euclidean_cluster/package.xml
+++ b/perception/euclidean_cluster/package.xml
@@ -12,7 +12,7 @@
    <build_depend>autoware_cmake</build_depend>

    <depend>autoware_auto_perception_msgs</depend>
-   <depend>compare_map_segmentation</depend>
+   <!-- <depend>compare_map_segmentation</depend> -->
    <depend>geometry_msgs</depend>
    <depend>libpcl-all-dev</depend>
    <depend>pcl_conversions</depend>
diff --git a/perception/front_vehicle_velocity_estimator/CMakeLists.txt
index 98094d029a..7a74362a17 100644
--- a/perception/front_vehicle_velocity_estimator/CMakeLists.txt
+++ b/perception/front_vehicle_velocity_estimator/CMakeLists.txt
@@ -5,11 +5,22 @@
project(front_vehicle_velocity_estimator)

find_package(autoware_cmake REQUIRED)

```



```

    autoware_package()

+find_package(PCL REQUIRED COMPONENTS common)
+
# Targets
ament_auto_add_library(front_vehicle_velocity_estimator
    src/front_vehicle_velocity_estimator_node/front_vehicle_velocity_estimator_node.cpp
    src/front_vehicle_velocity_estimator_node/front_vehicle_velocity_estimator_node.h
)
+target_include_directories(front_vehicle_velocity_estimator
+ SYSTEM PUBLIC ${PCL_INCLUDE_DIRS}
+)
+target_link_libraries(front_vehicle_velocity_estimator
+ ${PCL_LIBRARY_DIRS}
+)
+target_compile_definitions(front_vehicle_velocity_estimator
+ PUBLIC ${PCL_DEFINITIONS}
+)

    rclcpp_components_register_node(front_vehicle_velocity_estimator
        PLUGIN "front_vehicle_velocity_estimator::FrontVehicleVelocityEstimator"
diff --git a/perception/front_vehicle_velocity_estimator/package.xml
index 32cf885558..6678473a1d 100644
--- a/perception/front_vehicle_velocity_estimator/package.xml
+++ b/perception/front_vehicle_velocity_estimator/package.xml
@@ -12,11 +12,12 @@
    <buildtool_depend>ament_cmake_auto</buildtool_depend>

    <depend>autoware_auto_perception_msgs</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>message_filters</depend>
    <depend>nav_msgs</depend>
    <depend>pcl_conversions</depend>
-   <depend>pcl_ros</depend>
+   <depend>libpcl-common</depend>
+   <!-- <depend>pcl_ros</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
diff --git a/perception/ground_segmentation/package.xml
index cdbab9ee5b..403bcf0ac4 100644
--- a/perception/ground_segmentation/package.xml
+++ b/perception/ground_segmentation/package.xml
@@ -23,10 +23,10 @@
    <depend>pcl_conversions</depend>
    <depend>pcl_ros</depend>
    <depend>pointcloud_preprocessor</depend>
-   <depend>rclcpp</depend>
+   <!-- <depend>rclcpp</depend> -->
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
    <depend>tf2_eigen</depend>
    <depend>tf2_ros</depend>
diff --git a/perception/image_projection_based_fusion/package.xml
index e2b141542b..a0e32e55a5 100644
--- a/perception/image_projection_based_fusion/package.xml
+++ b/perception/image_projection_based_fusion/package.xml
@@ -17,12 +17,12 @@
    <depend>image_transport</depend>
    <depend>lidar_centerpoint</depend>
    <depend>message_filters</depend>

```

```

- <depend>pcl_conversions</depend>
- <depend>pcl_ros</depend>
+ <!-- <depend>pcl_conversions</depend> -->
+ <!-- <depend>pcl_ros</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>sensor_msgs</depend>
- <depend>tf2</depend>
+ <!-- <depend>tf2</depend> -->
  <depend>tf2_eigen</depend>
  <depend>tf2_ros</depend>
  <depend>tf2_sensor_msgs</depend>
diff --git a/perception/lidar_apollo_instance_segmen
index 9cb4d975cf..a8b6eb3581 100755
--- a/perception/lidar_apollo_instance_segmentation/
+++ b/perception/lidar_apollo_instance_segmentation/
@@ -21,7 +21,7 @@
  <depend>tensorrt_common</depend>
  <depend>tf2_eigen</depend>
  <depend>tier4_aware_utils</depend>
- <depend>tier4_debug_msgs</depend>
+ <!-- <depend>tier4_debug_msgs</depend> -->
  <depend>tier4_perception_msgs</depend>

  <test_depend>ament_lint_auto</test_depend>
diff --git a/perception/lidar_apollo_segmentation_tv
index 8dd64a199e..ea80d0fb34 100755
--- a/perception/lidar_apollo_segmentation_tvm/packa
+++ b/perception/lidar_apollo_segmentation_tvm/packa
@@ -16,7 +16,7 @@
  <depend>autoware_auto_perception_msgs</depend>
  <depend>geometry_msgs</depend>
  <depend>pcl_conversions</depend>
- <depend>rclcpp</depend>
+ <!-- <depend>rclcpp</depend> -->
  <depend>sensor_msgs</depend>
  <depend>tf2_eigen</depend>
  <depend>tf2_geometry_msgs</depend>
diff --git a/perception/lidar_centerpoint/package.xml
index 879013189b..675dd0c580 100644
--- a/perception/lidar_centerpoint/package.xml
+++ b/perception/lidar_centerpoint/package.xml
@@ -16,7 +16,7 @@
  <depend>autoware_auto_perception_msgs</depend>
  <depend>pcl_ros</depend>
  <depend>perception_utils</depend>
- <depend>python3-open3d</depend>
+ <!-- <depend>python3-open3d</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>tensorrt_common</depend>
diff --git a/perception/map_based_prediction/package
index d5e31348e0..4846dec69d 100644
--- a/perception/map_based_prediction/package.xml
+++ b/perception/map_based_prediction/package.xml
@@ -22,9 +22,9 @@
  <depend>rclcpp_components</depend>
  <depend>tf2</depend>
  <depend>tf2_geometry_msgs</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>tf2_ros</depend> -->
  <depend>tier4_aware_utils</depend>
- <depend>unique_identifier_msgs</depend>
+ <!-- <depend>unique_identifier_msgs</depend> -->
  <depend>visualization_msgs</depend>

```

```

    <test_depend>ament_lint_auto</test_depend>
diff --git a/perception/multi_object_tracker/package
index f924b73f64..91cdb99bb1 100644
--- a/perception/multi_object_tracker/package.xml
+++ b/perception/multi_object_tracker/package.xml
@@ -23,7 +23,7 @@
    <depend>tf2</depend>
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>
-   <depend>tier4_perception_msgs</depend>
+   <!-- <depend>tier4_perception_msgs</depend> -->
    <depend>unique_identifier_msgs</depend>

    <test_depend>ament_lint_auto</test_depend>
diff --git a/perception/object_merger/package.xml b/
index c35b3f837f..e5a857d877 100644
--- a/perception/object_merger/package.xml
+++ b/perception/object_merger/package.xml
@@ -22,7 +22,7 @@
    <depend>tf2</depend>
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>
-   <depend>tier4_perception_msgs</depend>
+   <!-- <depend>tier4_perception_msgs</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/object_range_splitter/package
index 9a2ac13b35..3d7a4bec14 100644
--- a/perception/object_range_splitter/package.xml
+++ b/perception/object_range_splitter/package.xml
@@ -14,7 +14,7 @@
    <depend>autoware_auto_perception_msgs</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>sensor_msgs</depend>
+   <!-- <depend>sensor_msgs</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/occupancy_grid_map_outlier_f
index 26d2a86340..a04bf3ab1f 100644
--- a/perception/occupancy_grid_map_outlier_filter/p
+++ b/perception/occupancy_grid_map_outlier_filter/p
@@ -18,29 +18,29 @@
    <build_depend>autoware_cmake</build_depend>

-   <depend>autoware_auto_vehicle_msgs</depend>
-   <depend>diagnostic_updater</depend>
-   <depend>image_transport</depend>
-   <depend>lanelet2_extension</depend>
-   <depend>libopencv-dev</depend>
+   <!-- <depend>autoware_auto_vehicle_msgs</depend>
+   <!-- <depend>diagnostic_updater</depend> -->
+   <!-- <depend>image_transport</depend> -->
+   <!-- <depend>lanelet2_extension</depend> -->
+   <!-- <depend>libopencv-dev</depend> -->
    <depend>libpcl-all-dev</depend>
    <depend>message_filters</depend>
    <depend>nav_msgs</depend>
    <depend>pcl_conversions</depend>
-   <depend>pcl_msgs</depend>
+   <!-- <depend>pcl_msgs</depend> -->

```

```

    <depend>pcl_ros</depend>
    <depend>pointcloud_preprocessor</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
    <depend>std_msgs</depend>
-   <depend>tf2</depend>
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_eigen</depend>
-   <depend>tf2_geometry_msgs</depend>
+   <!-- <depend>tf2_geometry_msgs</depend> -->
    <depend>tf2_ros</depend>
    <depend>tier4_autoware_utils</depend>
-   <depend>tier4_debug_msgs</depend>
-   <depend>tier4_pcl_extensions</depend>
+   <!-- <depend>tier4_debug_msgs</depend> -->
+   <!-- <depend>tier4_pcl_extensions</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/perception/probabilistic_occupancy_grid_map/package.xml b/perception/probabilistic_occupancy_grid_map/package.xml
index d3b5c71b65..7dc9ba192b 100644
--- a/perception/probabilistic_occupancy_grid_map/package.xml
+++ b/perception/probabilistic_occupancy_grid_map/package.xml
@@ -14,7 +14,7 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>eigen3_cmake_module</depend>
+   <!-- <depend>eigen3_cmake_module</depend> -->
    <depend>laser_geometry</depend>
    <depend>message_filters</depend>
    <depend>nav2_costmap_2d</depend>
@@ -23,13 +23,13 @@
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
-   <depend>tf2</depend>
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_eigen</depend>
-   <depend>tf2_geometry_msgs</depend>
+   <!-- <depend>tf2_geometry_msgs</depend> -->
    <depend>tf2_ros</depend>
    <depend>tf2_sensor_msgs</depend>
    <depend>tier4_autoware_utils</depend>
-   <depend>visualization_msgs</depend>
+   <!-- <depend>visualization_msgs</depend> -->

    <exec_depend>pointcloud_to_laserscan</exec_depend>

diff --git a/perception/radar_fusion_to_detected_object/package.xml b/perception/radar_fusion_to_detected_object/package.xml
index f7c7e10062..af7d6e0a27 100644
--- a/perception/radar_fusion_to_detected_object/package.xml
+++ b/perception/radar_fusion_to_detected_object/package.xml
@@ -17,7 +17,7 @@
    <depend>message_filters</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tier4_autoware_utils</depend>

    <build_depend>autoware_cmake</build_depend>
diff --git a/perception/radar_tracks_msgs_converter/package.xml b/perception/radar_tracks_msgs_converter/package.xml
index 84ee931b79..4a01767218 100644

```

```

--- a/perception/radar_tracks_msgs_converter/package.xml
+++ b/perception/radar_tracks_msgs_converter/package.xml
@@ -12,14 +12,14 @@
<buildtool_depend>ament_cmake_auto</buildtool_depend>

<depend>autoware_auto_perception_msgs</depend>
- <depend>geometry_msgs</depend>
+ <!-- <depend>geometry_msgs</depend> -->
<depend>nav_msgs</depend>
<depend>radar_msgs</depend>
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>tf2</depend>
<depend>tf2_geometry_msgs</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>tf2_ros</depend> -->
<depend>tier4_autoware_utils</depend>

<build_depend>autoware_cmake</build_depend>
diff --git a/perception/shape_estimation/package.xml
index 0c4a2ae9aa..e6c2430d12 100644
--- a/perception/shape_estimation/package.xml
+++ b/perception/shape_estimation/package.xml
@@ -13,7 +13,7 @@
<build_depend>autoware_cmake</build_depend>

<depend>autoware_auto_perception_msgs</depend>
- <depend>builtin_interfaces</depend>
+ <!-- <depend>builtin_interfaces</depend> -->
<depend>eigen</depend>
<depend>libopencv-dev</depend>
<depend>libpcl-all-dev</depend>
diff --git a/perception/traffic_light_map_based_detector/package.xml
index 46220572ae..63809a9f3e 100644
--- a/perception/traffic_light_map_based_detector/package.xml
+++ b/perception/traffic_light_map_based_detector/package.xml
@@ -13,7 +13,7 @@
<depend>autoware_auto_mapping_msgs</depend>
<depend>autoware_auto_perception_msgs</depend>
- <depend>autoware_auto_planning_msgs</depend>
+ <!-- <depend>autoware_auto_planning_msgs</depend> -->
<depend>autoware_planning_msgs</depend>
<depend>geometry_msgs</depend>
<depend>image_geometry</depend>
diff --git a/planning/behavior_path_planner/package.xml
index 9f2743e1ce..25dbb50ee7 100644
--- a/planning/behavior_path_planner/package.xml
+++ b/planning/behavior_path_planner/package.xml
@@ -54,15 +54,15 @@
<depend>lane_departure_checker</depend>
<depend>lanelet2_extension</depend>
<depend>libboost-dev</depend>
- <depend>magic_enum</depend>
+ <!-- <depend>magic_enum</depend> -->
<depend>motion_utils</depend>
<depend>perception_utils</depend>
- <depend>planning_test_utils</depend>
+ <!-- <depend>planning_test_utils</depend> -->
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>route_handler</depend>
<depend>rtc_interface</depend>
- <depend>sensor_msgs</depend>
+ <!-- <depend>sensor_msgs</depend> -->

```

```

    <depend>tf2</depend>
    <depend>tf2_eigen</depend>
    <depend>tf2_geometry_msgs</depend>
diff --git a/planning/behavior_velocity_planner/package.xml b/planning/behavior_velocity_planner/package.xml
index 4f6903ded6..2e83f20274 100644
--- a/planning/behavior_velocity_planner/package.xml
+++ b/planning/behavior_velocity_planner/package.xml
@@ -66,7 +66,7 @@
    <depend>lanelet2_extension</depend>
    <depend>libboost-dev</depend>
    <depend>libopencv-dev</depend>
-   <depend>magic_enum</depend>
+   <!-- <depend>magic_enum</depend> -->
    <depend>message_filters</depend>
    <depend>motion_utils</depend>
    <depend>motion_velocity_smoother</depend>
diff --git a/planning/costmap_generator/package.xml b/planning/costmap_generator/package.xml
index f2741df943..1c00dfc8bd 100644
--- a/planning/costmap_generator/package.xml
+++ b/planning/costmap_generator/package.xml
@@ -21,7 +21,7 @@
    <depend>autoware_auto_perception_msgs</depend>
    <depend>grid_map_ros</depend>
    <depend>lanelet2_extension</depend>
-   <depend>libpcl-all-dev</depend>
+   <!-- <depend>libpcl-all-dev</depend> -->
    <depend>pcl_conversions</depend>
    <depend>pcl_ros</depend>
    <depend>rclcpp</depend>
diff --git a/planning/freespace_planner/package.xml b/planning/freespace_planner/package.xml
index 1a7e17e78e..0a8c3f2d6e 100644
--- a/planning/freespace_planner/package.xml
+++ b/planning/freespace_planner/package.xml
@@ -21,17 +21,17 @@
    <depend>freespace_planning_algorithms</depend>
    <depend>geometry_msgs</depend>
    <depend>nav_msgs</depend>
-   <depend>planning_test_utils</depend>
+   <!-- <depend>planning_test_utils</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>route_handler</depend>
-   <depend>tf2</depend>
+   <!-- <depend>tf2</depend> -->
    <depend>tf2_geometry_msgs</depend>
    <depend>tf2_ros</depend>
    <depend>tier4_aware_utils</depend>
    <depend>tier4_planning_msgs</depend>
    <depend>vehicle_info_util</depend>
-   <depend>visualization_msgs</depend>
+   <!-- <depend>visualization_msgs</depend> -->

    <test_depend>ament_cmake_ros</test_depend>
    <test_depend>ament_lint_auto</test_depend>
diff --git a/planning/mission_planner/package.xml b/planning/mission_planner/package.xml
index 0cd34c6df0..4efd520cd0 100644
--- a/planning/mission_planner/package.xml
+++ b/planning/mission_planner/package.xml
@@ -19,7 +19,7 @@
    <build_depend>ament_cmake</build_depend>

    <depend>autoware_adapi_v1_msgs</depend>
-   <depend>autoware_auto_planning_msgs</depend>
+   <!-- <depend>autoware_auto_planning_msgs</depend> -->
    <depend>autoware_planning_msgs</depend>

```

```

    <depend>component_interface_specs</depend>
    <depend>component_interface_utils</depend>
diff --git a/planning/motion_velocity_smoother/package.xml
index dcbdbf8128..a66081c44a 100644
--- a/planning/motion_velocity_smoother/package.xml
+++ b/planning/motion_velocity_smoother/package.xml
@@ -28,7 +28,8 @@
    <depend>motion_utils</depend>
    <depend>nav_msgs</depend>
    <depend>osqp_interface</depend>
-   <depend>planning_test_utils</depend>
+   <depend>rclcpp_components</depend>
+   <!-- <depend>planning_test_utils</depend> -->
    <depend>rclcpp</depend>
    <depend>tf2</depend>
    <depend>tf2_ros</depend>
diff --git a/planning/obstacle_avoidance_planner/package.xml
index 6aa659ff60..0426a76292 100644
--- a/planning/obstacle_avoidance_planner/package.xml
+++ b/planning/obstacle_avoidance_planner/package.xml
@@ -24,10 +24,10 @@
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>std_msgs</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>tf2_ros</depend> -->
    <depend>tier4_aware_utils</depend>
    <depend>tier4_debug_msgs</depend>
-   <depend>tier4_planning_msgs</depend>
+   <!-- <depend>tier4_planning_msgs</depend> -->
    <depend>vehicle_info_util</depend>
    <depend>visualization_msgs</depend>

diff --git a/planning/obstacle_cruise_planner/package.xml
index a9c914f1bb..6d2f6bc85c 100644
--- a/planning/obstacle_cruise_planner/package.xml
+++ b/planning/obstacle_cruise_planner/package.xml
@@ -26,13 +26,13 @@
    <depend>nav_msgs</depend>
    <depend>osqp_interface</depend>
    <depend>perception_utils</depend>
-   <depend>planning_test_utils</depend>
+   <!-- <depend>planning_test_utils</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>signal_processing</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
-   <depend>tf2_ros</depend>
+   <!-- <depend>tf2_ros</depend> -->
    <depend>tier4_aware_utils</depend>
    <depend>tier4_debug_msgs</depend>
    <depend>tier4_planning_msgs</depend>
diff --git a/planning/obstacle_stop_planner/package.xml
index e167604e4c..859f3d4d8e 100644
--- a/planning/obstacle_stop_planner/package.xml
+++ b/planning/obstacle_stop_planner/package.xml
@@ -28,12 +28,12 @@
    <depend>nav_msgs</depend>
    <depend>pcl_conversions</depend>
    <depend>pcl_ros</depend>
-   <depend>planning_test_utils</depend>
+   <!-- <depend>planning_test_utils</depend> -->
    <depend>rclcpp</depend>

```



```

    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
-   <depend>signal_processing</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>signal_processing</depend> -->
+   <!-- <depend>std_msgs</depend> -->
    <depend>tf2</depend>
    <depend>tf2_eigen</depend>
    <depend>tf2_geometry_msgs</depend>
diff --git a/planning/obstacle_velocity_limiter/package.xml
index 377f061faf..6deb9844a3 100644
--- a/planning/obstacle_velocity_limiter/package.xml
+++ b/planning/obstacle_velocity_limiter/package.xml
@@ -13,8 +13,8 @@
    <depend>autoware_auto_perception_msgs</depend>
    <depend>autoware_auto_planning_msgs</depend>
-   <depend>eigen</depend>
-   <depend>grid_map_msgs</depend>
+   <!-- <depend>eigen</depend> -->
+   <!-- <depend>grid_map_msgs</depend> -->
    <depend>grid_map_ros</depend>
    <depend>grid_map_utils</depend>
    <depend>lanelet2_core</depend>
@@ -23,14 +23,14 @@
    <depend>motion_utils</depend>
    <depend>nav_msgs</depend>
    <depend>pcl_ros</depend>
-   <depend>planning_test_utils</depend>
+   <!-- <depend>planning_test_utils</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
    <depend>sensor_msgs</depend>
    <depend>tf2_eigen</depend>
    <depend>tf2_geometry_msgs</depend>
    <depend>tier4_aware_utils</depend>
-   <depend>tier4_planning_msgs</depend>
+   <!-- <depend>tier4_planning_msgs</depend> -->
    <depend>vehicle_info_util</depend>
    <depend>visualization_msgs</depend>

diff --git a/planning/planning_debug_tools/package.xml
index 9cee8bfdac..c3f687e825 100644
--- a/planning/planning_debug_tools/package.xml
+++ b/planning/planning_debug_tools/package.xml
@@ -17,7 +17,7 @@
    <build_depend>roslaunch</build_depend>
    <build_export_depend>roslaunch</build_export_depend>
    <depend>autoware_auto_planning_msgs</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>motion_utils</depend>
    <depend>nav_msgs</depend>
    <depend>rclcpp</depend>
diff --git a/planning/planning_validator/package.xml
index 68c640346c..5133ddf4ed 100644
--- a/planning/planning_validator/package.xml
+++ b/planning/planning_validator/package.xml
@@ -17,10 +17,10 @@
    <depend>autoware_auto_planning_msgs</depend>
    <depend>diagnostic_updater</depend>
-   <depend>geometry_msgs</depend>
+   <!-- <depend>geometry_msgs</depend> -->
    <depend>motion_utils</depend>

```



```

<depend>nav_msgs</depend>
- <depend>planning_test_utils</depend>
+ <!-- <depend>planning_test_utils</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>tier4_aware_utils</depend>
diff --git a/planning/route_handler/package.xml b/pl
index fb863d2e82..ebaa662f31 100644
--- a/planning/route_handler/package.xml
+++ b/planning/route_handler/package.xml
@@ -26,8 +26,8 @@
  <depend>lanelet2_extension</depend>
  <depend>motion_utils</depend>
  <depend>rclcpp</depend>
- <depend>rclcpp_components</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>rclcpp_components</depend> -->
+ <!-- <depend>tf2_ros</depend> -->
  <depend>tier4_aware_utils</depend>

  <export>
diff --git a/planning/scenario_selector/package.xml
index b1a21a15a9..e4326ebbe0 100644
--- a/planning/scenario_selector/package.xml
+++ b/planning/scenario_selector/package.xml
@@ -24,11 +24,11 @@
  <depend>aware_auto_planning_msgs</depend>
  <depend>lanelet2_extension</depend>
  <depend>nav_msgs</depend>
- <depend>planning_test_utils</depend>
+ <!-- <depend>planning_test_utils</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>route_handler</depend>
- <depend>tf2</depend>
+ <!-- <depend>tf2</depend> -->
  <depend>tf2_geometry_msgs</depend>
  <depend>tf2_ros</depend>
  <depend>tier4_planning_msgs</depend>
diff --git a/planning/static_centerline_optimizer/pa
index 0cdd6b58c7..ed013f64c5 100644
--- a/planning/static_centerline_optimizer/package.
+++ b/planning/static_centerline_optimizer/package.
@@ -20,14 +20,14 @@
  <depend>aware_auto_planning_msgs</depend>
  <depend>behavior_path_planner</depend>
  <depend>geometry_msgs</depend>
- <depend>global_parameter_loader</depend>
- <depend>interpolation</depend>
+ <!-- <depend>global_parameter_loader</depend> -->
+ <!-- <depend>interpolation</depend> -->
  <depend>lanelet2_extension</depend>
  <depend>map_loader</depend>
  <depend>mission_planner</depend>
  <depend>motion_utils</depend>
  <depend>obstacle_avoidance_planner</depend>
- <depend>osqp_interface</depend>
+ <!-- <depend>osqp_interface</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
  <depend>route_handler</depend>
diff --git a/planning/surround_obstacle_checker/pack
index e1d31acbab..f016252eb8 100644
--- a/planning/surround_obstacle_checker/package.xml
+++ b/planning/surround_obstacle_checker/package.xml

```

@@ -16,7 +16,7 @@

```
<depend>autoware_adapi_v1_msgs</depend>
<depend>autoware_auto_perception_msgs</depend>
- <depend>autoware_auto_planning_msgs</depend>
+ <!-- <depend>autoware_auto_planning_msgs</depend>
<depend>autoware_auto_tf2</depend>
<depend>diagnostic_msgs</depend>
<depend>eigen</depend>
```

@@ -26,7 +26,7 @@

```
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>sensor_msgs</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->
<depend>tf2</depend>
<depend>tf2_eigen</depend>
<depend>tf2_geometry_msgs</depend>
```

diff --git a/sensing/geo_pos_conv/package.xml b/sensing/geo_pos_conv/package.xml
index 0d7cbe47fd..fffd176d167 100644

--- a/sensing/geo_pos_conv/package.xml
+++ b/sensing/geo_pos_conv/package.xml

@@ -12,8 +12,6 @@

```
<build_depend>autoware_cmake</build_depend>
```

- <depend>rclcpp</depend>

-

```
<test_depend>ament_lint_auto</test_depend>
<test_depend>autoware_lint_common</test_depend>
```

diff --git a/sensing/gnss_poser/package.xml b/sensing/gnss_poser/package.xml
index 250122b929..1c799e3c96 100644

--- a/sensing/gnss_poser/package.xml
+++ b/sensing/gnss_poser/package.xml

@@ -15,7 +15,6 @@

```
<depend>autoware_sensing_msgs</depend>
<depend>geo_pos_conv</depend>
- <depend>geographiclib</depend>
<depend>geometry_msgs</depend>
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
```

diff --git a/sensing/image_diagnostics/package.xml b/sensing/image_diagnostics/package.xml
index c613ea5e18..e6bc381c30 100644

--- a/sensing/image_diagnostics/package.xml
+++ b/sensing/image_diagnostics/package.xml

@@ -15,7 +15,6 @@

```
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>sensor_msgs</depend>
- <depend>tier4_autoware_utils</depend>
<depend>tier4_debug_msgs</depend>
```

```
<test_depend>ament_lint_auto</test_depend>
```

diff --git a/sensing/imu_corrector/package.xml b/sensing/imu_corrector/package.xml
index ce85a42186..a3fa769e52 100644

--- a/sensing/imu_corrector/package.xml
+++ b/sensing/imu_corrector/package.xml

@@ -15,7 +15,6 @@

```
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>sensor_msgs</depend>
- <depend>tf2</depend>
<depend>tf2_ros</depend>
```

```

<depend>tier4_autoware_utils</depend>

diff --git a/sensing/livox/livox_tag_filter/package.
index 50f80e4c5b..c74b922a89 100644
--- a/sensing/livox/livox_tag_filter/package.xml
+++ b/sensing/livox/livox_tag_filter/package.xml
@@ -11,7 +11,6 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>libpcl-all-dev</depend>
    <depend>pcl_conversions</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
diff --git a/sensing/pointcloud_preprocessor/package
index 856f7d2bc6..e3181938fb 100644
--- a/sensing/pointcloud_preprocessor/package.xml
+++ b/sensing/pointcloud_preprocessor/package.xml
@@ -28,7 +28,6 @@
    <depend>libopencv-dev</depend>
    <depend>libpcl-all-dev</depend>
    <depend>message_filters</depend>
-   <depend>nav_msgs</depend>
    <depend>pcl_conversions</depend>
    <depend>pcl_msgs</depend>
    <depend>pcl_ros</depend>
diff --git a/sensing/radar_scan_to_pointcloud2/CMake
index 1fb63df659..a0b1db3630 100644
--- a/sensing/radar_scan_to_pointcloud2/CMakeLists.t
+++ b/sensing/radar_scan_to_pointcloud2/CMakeLists.t
@@ -5,10 +5,21 @@
project(radar_scan_to_pointcloud2)
find_package(ament_cmake REQUIRED)
ament_package()

+find_package(PCL REQUIRED COMPONENTS common)
+
# Targets
ament_auto_add_library(radar_scan_to_pointcloud2_node
  src/radar_scan_to_pointcloud2_node/radar_scan_to_
)
+target_include_directories(radar_scan_to_pointcloud2_node
+  SYSTEM PUBLIC ${PCL_INCLUDE_DIRS}
+)
+target_link_libraries(radar_scan_to_pointcloud2_node
+  ${PCL_LIBRARY_DIRS}
+)
+target_compile_definitions(radar_scan_to_pointcloud2_node
+  PUBLIC ${PCL_DEFINITIONS}
+)

rclcpp_components_register_node(radar_scan_to_pointcloud2_node
  PLUGIN "radar_scan_to_pointcloud2::RadarScanToPointcloud2"
diff --git a/sensing/radar_scan_to_pointcloud2/package
index dc6ba43812..62205cd13e 100644
--- a/sensing/radar_scan_to_pointcloud2/package.xml
+++ b/sensing/radar_scan_to_pointcloud2/package.xml
@@ -10,8 +10,8 @@
    <buildtool_depend>ament_cmake_auto</buildtool_depend>

+   <depend>libpcl-common</depend>
    <depend>pcl_conversions</depend>
-   <depend>pcl_ros</depend>
    <depend>radar_msgs</depend>
    <depend>rclcpp</depend>

```

```

<depend>rclcpp_components</depend>
diff --git a/sensing/radar_static_pointcloud_filter/package.xml b/sensing/radar_static_pointcloud_filter/package.xml
index 30739d5578..56f2b1ffe4 100644
--- a/sensing/radar_static_pointcloud_filter/package.xml
+++ b/sensing/radar_static_pointcloud_filter/package.xml
@@ -15,9 +15,6 @@
   <depend>radar_msgs</depend>
   <depend>rclcpp</depend>
   <depend>rclcpp_components</depend>
-  <depend>tf2</depend>
-  <depend>tf2_geometry_msgs</depend>
-  <depend>tf2_ros</depend>
   <depend>tier4_autoware_utils</depend>

   <build_depend>autoware_cmake</build_depend>
diff --git a/simulator/fault_injection/package.xml b/simulator/fault_injection/package.xml
index 3b3cd5ca6c..47c95e7859 100644
--- a/simulator/fault_injection/package.xml
+++ b/simulator/fault_injection/package.xml
@@ -14,7 +14,7 @@
   <depend>diagnostic_aggregator</depend>
   <depend>diagnostic_msgs</depend>
   <depend>diagnostic_updater</depend>
-  <depend>pluginlib</depend>
+  <!-- <depend>pluginlib</depend> -->
   <depend>rclcpp</depend>
   <depend>rclcpp_components</depend>
   <depend>tier4_autoware_utils</depend>
diff --git a/simulator/simple_planning_simulator/package.xml b/simulator/simple_planning_simulator/package.xml
index ca4766f875..4526d55b79 100644
--- a/simulator/simple_planning_simulator/package.xml
+++ b/simulator/simple_planning_simulator/package.xml
@@ -27,7 +27,7 @@
   <depend>tier4_api_utils</depend>
   <depend>tier4_autoware_utils</depend>
   <depend>tier4_external_api_msgs</depend>
-  <depend>tier4_vehicle_msgs</depend>
+  <!-- <depend>tier4_vehicle_msgs</depend> -->
   <depend>vehicle_info_util</depend>

   <exec_depend>launch_ros</exec_depend>
diff --git a/system/bluetooth_monitor/package.xml b/system/bluetooth_monitor/package.xml
index 12f3e8088d..0a2fc4bd53 100644
--- a/system/bluetooth_monitor/package.xml
+++ b/system/bluetooth_monitor/package.xml
@@ -12,7 +12,7 @@
   <build_depend>autoware_cmake</build_depend>
   <build_depend>libboost-serialization-dev</build_depend>

-  <depend>diagnostic_msgs</depend>
+  <!-- <depend>diagnostic_msgs</depend> -->
   <depend>diagnostic_updater</depend>
   <depend>fmt</depend>
   <depend>libboost-dev</depend>
diff --git a/system/default_ad_api/package.xml b/system/default_ad_api/package.xml
index f6f43a82f7..3242ef29ef 100644
--- a/system/default_ad_api/package.xml
+++ b/system/default_ad_api/package.xml
@@ -17,8 +17,8 @@
   <depend>autoware_ad_api_specs</depend>
   <depend>autoware_adapi_v1_msgs</depend>
-  <depend>autoware_adapi_version_msgs</depend>
-  <depend>autoware_auto_planning_msgs</depend>
+  <!-- <depend>autoware_adapi_version_msgs</depend>

```

```

+ <!-- <depend>autoware_auto_planning_msgs</depend>
<depend>autoware_auto_system_msgs</depend>
<depend>autoware_planning_msgs</depend>
<depend>component_interface_specs</depend>
@@ -27,7 +27,7 @@
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
<depend>std_srvs</depend>
- <depend>tier4_control_msgs</depend>
+ <!-- <depend>tier4_control_msgs</depend> -->
<depend>tier4_system_msgs</depend>

<exec_depend>python3-flask</exec_depend>
diff --git a/system/default_ad_api_helpers/ad_api_adaptors/
index 7774c8acbe..b785508a84 100644
--- a/system/default_ad_api_helpers/ad_api_adaptors/
+++ b/system/default_ad_api_helpers/ad_api_adaptors/
@@ -16,7 +16,7 @@
<build_depend>autoware_cmake</build_depend>

<depend>autoware_ad_api_specs</depend>
- <depend>autoware_adapi_v1_msgs</depend>
+ <!-- <depend>autoware_adapi_v1_msgs</depend> -->
<depend>component_interface_utils</depend>
<depend>map_height_fitter</depend>
<depend>rclcpp</depend>
diff --git a/system/default_ad_api_helpers/automatic_pose_estimator/
index a8172d1ced..8ae3326f32 100644
--- a/system/default_ad_api_helpers/automatic_pose_estimator/
+++ b/system/default_ad_api_helpers/automatic_pose_estimator/
@@ -16,7 +16,7 @@
<build_depend>autoware_cmake</build_depend>

<depend>autoware_ad_api_specs</depend>
- <depend>autoware_adapi_v1_msgs</depend>
+ <!-- <depend>autoware_adapi_v1_msgs</depend> -->
<depend>component_interface_utils</depend>
<depend>rclcpp</depend>

diff --git a/system/dummy_diag_publisher/package.xml
index 191facf6e3..158d313967 100644
--- a/system/dummy_diag_publisher/package.xml
+++ b/system/dummy_diag_publisher/package.xml
@@ -16,7 +16,7 @@
<depend>diagnostic_updater</depend>
<depend>fmt</depend>
<depend>rclcpp</depend>
- <depend>rclcpp_components</depend>
+ <!-- <depend>rclcpp_components</depend> -->
<depend>tier4_autoware_utils</depend>

<exec_depend>rqt_reconfigure</exec_depend>
diff --git a/system/emergency_handler/package.xml b/system/emergency_handler/package.xml
index babcd28537..4a2d070a81 100644
--- a/system/emergency_handler/package.xml
+++ b/system/emergency_handler/package.xml
@@ -18,8 +18,8 @@
<depend>autoware_auto_vehicle_msgs</depend>
<depend>nav_msgs</depend>
<depend>rclcpp</depend>
- <depend>std_msgs</depend>
- <depend>std_srvs</depend>
+ <!-- <depend>std_msgs</depend> -->
+ <!-- <depend>std_srvs</depend> -->
<depend>tier4_system_msgs</depend>

```

```

    <test_depend>ament_lint_auto</test_depend>
diff --git a/system/mrm_comfortable_stop_operator/package.xml
index a108f52f4b..ddffdb6027 100644
--- a/system/mrm_comfortable_stop_operator/package.xml
+++ b/system/mrm_comfortable_stop_operator/package.xml
@@ -11,11 +11,11 @@

```

```

    <build_depend>autoware_cmake</build_depend>

```

```

-   <depend>autoware_adapi_v1_msgs</depend>
+   <!-- <depend>autoware_adapi_v1_msgs</depend> -->
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
-   <depend>std_srvs</depend>
+   <!-- <depend>std_msgs</depend> -->
+   <!-- <depend>std_srvs</depend> -->
    <depend>tier4_planning_msgs</depend>
    <depend>tier4_system_msgs</depend>

```

```

diff --git a/system/mrm_emergency_stop_operator/package.xml
index 0761a1cbb9..6e728587d6 100644
--- a/system/mrm_emergency_stop_operator/package.xml
+++ b/system/mrm_emergency_stop_operator/package.xml
@@ -11,12 +11,12 @@

```

```

    <build_depend>autoware_cmake</build_depend>

```

```

-   <depend>autoware_adapi_v1_msgs</depend>
+   <!-- <depend>autoware_adapi_v1_msgs</depend> -->
    <depend>autoware_auto_control_msgs</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
-   <depend>std_srvs</depend>
+   <!-- <depend>std_msgs</depend> -->
+   <!-- <depend>std_srvs</depend> -->
    <depend>tier4_system_msgs</depend>

```

```

    <test_depend>ament_lint_auto</test_depend>
diff --git a/system/system_error_monitor/package.xml
index be25f799af..e2bc870cb1 100644
--- a/system/system_error_monitor/package.xml
+++ b/system/system_error_monitor/package.xml
@@ -18,7 +18,7 @@

```

```

    <depend>fmt</depend>
    <depend>rclcpp</depend>
    <depend>std_srvs</depend>
-   <depend>tier4_autoware_utils</depend>
+   <!-- <depend>tier4_autoware_utils</depend> -->
    <depend>tier4_control_msgs</depend>

```

```

    <exec_depend>diagnostic_aggregator</exec_depend>

```

```

diff --git a/system/system_monitor/package.xml b/system/system_monitor/package.xml
index bc4b040051..ba2136ef69 100644
--- a/system/system_monitor/package.xml
+++ b/system/system_monitor/package.xml
@@ -12,7 +12,7 @@

```

```

    <build_depend>autoware_cmake</build_depend>

```

```

-   <depend>diagnostic_msgs</depend>
+   <!-- <depend>diagnostic_msgs</depend> -->
    <depend>diagnostic_updater</depend>

```

```

    <depend>fmt</depend>
    <depend>libboost-fs-dev</depend>
@@ -22,7 +22,7 @@
    <depend>libnl-3-dev</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->
    <depend>tier4_autoware_utils</depend>
    <depend>tier4_external_api_msgs</depend>

diff --git a/system/topic_state_monitor/package.xml
index 2707a74ff5..731432bc94 100644
--- a/system/topic_state_monitor/package.xml
+++ b/system/topic_state_monitor/package.xml
@@ -11,7 +11,7 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>ament_index_cpp</depend>
+   <!-- <depend>ament_index_cpp</depend> -->
    <depend>diagnostic_updater</depend>
    <depend>rclcpp</depend>
    <depend>rclcpp_components</depend>
diff --git a/system/velodyne_monitor/package.xml b/s
index 9c6683511c..9370842e9d 100644
--- a/system/velodyne_monitor/package.xml
+++ b/system/velodyne_monitor/package.xml
@@ -11,13 +11,13 @@

    <build_depend>autoware_cmake</build_depend>

-   <depend>crypto++</depend>
-   <depend>diagnostic_msgs</depend>
+   <!-- <depend>crypto++</depend> -->
+   <!-- <depend>diagnostic_msgs</depend> -->
    <depend>diagnostic_updater</depend>
    <depend>fmt</depend>
    <depend>libcpprest-dev</depend>
    <depend>rclcpp</depend>
-   <depend>std_msgs</depend>
+   <!-- <depend>std_msgs</depend> -->

    <test_depend>ament_lint_auto</test_depend>
    <test_depend>autoware_lint_common</test_depend>
diff --git a/tools/simulator_test/simulator_compatibility_t
index ffc679ef29..3daf4347c0 100644
--- a/tools/simulator_test/simulator_compatibility_t
+++ b/tools/simulator_test/simulator_compatibility_t
@@ -7,15 +7,15 @@
    <maintainer email="shpark@morai.ai">shpark</maint
    <license>TODO: License declaration</license>

-   <depend>autoware_auto_control_msgs</depend>
-   <depend>autoware_auto_geometry_msgs</depend>
-   <depend>autoware_auto_mapping_msgs</depend>
-   <depend>autoware_auto_msgs</depend>
-   <depend>autoware_auto_perception_msgs</depend>
-   <depend>autoware_auto_planning_msgs</depend>
-   <depend>autoware_auto_system_msgs</depend>
-   <depend>autoware_auto_vehicle_msgs</depend>
-   <depend>rclpy</depend>
+   <!-- <depend>autoware_auto_control_msgs</depend>
+   <!-- <depend>autoware_auto_geometry_msgs</depend>
+   <!-- <depend>autoware_auto_mapping_msgs</depend>

```



```

+ <!-- <depend>autoware_auto_msgs</depend> -->
+ <!-- <depend>autoware_auto_perception_msgs</depend> -->
+ <!-- <depend>autoware_auto_planning_msgs</depend> -->
+ <!-- <depend>autoware_auto_system_msgs</depend> -->
+ <!-- <depend>autoware_auto_vehicle_msgs</depend> -->
+ <!-- <depend>rclpy</depend> -->

<test_depend>ament_copyright</test_depend>
<test_depend>ament_flake8</test_depend>
diff --git a/vehicle/accel_brake_map_calibrator/accel_brake_map_calibrator.xml
index 8163a12098..ea31401a51 100644
--- a/vehicle/accel_brake_map_calibrator/accel_brake_map_calibrator.xml
+++ b/vehicle/accel_brake_map_calibrator/accel_brake_map_calibrator.xml
@@ -21,14 +21,14 @@
<depend>raw_vehicle_cmd_converter</depend>
<depend>rclcpp</depend>
<depend>std_msgs</depend>
- <depend>std_srvs</depend>
+ <!-- <depend>std_srvs</depend> -->
<depend>tf2_geometry_msgs</depend>
- <depend>tf2_ros</depend>
+ <!-- <depend>tf2_ros</depend> -->
<depend>tier4_autoware_utils</depend>
<depend>tier4_debug_msgs</depend>
<depend>tier4_external_api_msgs</depend>
<depend>tier4_vehicle_msgs</depend>
- <depend>visualization_msgs</depend>
+ <!-- <depend>visualization_msgs</depend> -->

<exec_depend>python3-matplotlib</exec_depend>
<exec_depend>python3-pandas</exec_depend>
diff --git a/vehicle/external_cmd_converter/package.xml
index af7200c6f5..d12223e692 100644
--- a/vehicle/external_cmd_converter/package.xml
+++ b/vehicle/external_cmd_converter/package.xml
@@ -16,15 +16,15 @@
<depend>autoware_auto_control_msgs</depend>
<depend>autoware_auto_vehicle_msgs</depend>
<depend>diagnostic_updater</depend>
- <depend>geometry_msgs</depend>
+ <!-- <depend>geometry_msgs</depend> -->
<depend>nav_msgs</depend>
<depend>raw_vehicle_cmd_converter</depend>
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->
<depend>tier4_control_msgs</depend>
<depend>tier4_external_api_msgs</depend>
- <depend>tier4_system_msgs</depend>
+ <!-- <depend>tier4_system_msgs</depend> -->

<test_depend>ament_lint_auto</test_depend>
<test_depend>autoware_lint_common</test_depend>
diff --git a/vehicle/steer_offset_estimator/package.xml
index f2c01c9fb2..640f6e00fc 100644
--- a/vehicle/steer_offset_estimator/package.xml
+++ b/vehicle/steer_offset_estimator/package.xml
@@ -14,8 +14,8 @@
<depend>geometry_msgs</depend>
<depend>rclcpp</depend>
<depend>rclcpp_components</depend>
- <depend>std_msgs</depend>
- <depend>tier4_autoware_utils</depend>
+ <!-- <depend>std_msgs</depend> -->

```



```
+ <!-- <depend>tier4_autoware_utils</depend> -->
    <depend>tier4_debug_msgs</depend>
    <depend>vehicle_info_util</depend>
    <exec_depend>global_parameter_loader</exec_depend>
=== src/universe/external/eagleeye (git) ===
diff --git a/eagleeye_core/coordinate/package.xml b/eagleeye_core/coordinate/package.xml
index 3f09d4c..4a03e78 100644
--- a/eagleeye_core/coordinate/package.xml
+++ b/eagleeye_core/coordinate/package.xml
@@ -13,7 +13,7 @@
     <build_depend>geodesy</build_depend>
     <build_export_depend>rclcpp</build_export_depend>
     <build_export_depend>geodesy</build_export_depend>
-    <depend>geographic_info</depend>
+    <!-- <depend>geographic_info</depend> -->

     <test_depend>ament_lint_auto</test_depend>
     <test_depend>ament_lint_common</test_depend>
=== src/universe/external/llh_converter (git) ===
=== src/universe/external/morai_msgs (git) ===
=== src/universe/external/muSSP (git) ===
=== src/universe/external/ndt_omp (git) ===
=== src/universe/external/pointcloud_to_laserscan (git) ===
diff --git a/package.xml b/package.xml
index f199e82..9415582 100644
--- a/package.xml
+++ b/package.xml
@@ -19,13 +19,13 @@
     <buildtool_depend>ament_cmake_auto</buildtool_depend>

     <depend>laser_geometry</depend>
-    <depend>libpcl-all-dev</depend>
+    <!-- <depend>libpcl-all-dev</depend> -->
     <depend>message_filters</depend>
     <depend>pcl_conversions</depend>
     <depend>rclcpp</depend>
     <depend>rclcpp_components</depend>
     <depend>sensor_msgs</depend>
-    <depend>tf2</depend>
+    <!-- <depend>tf2</depend> -->
     <depend>tf2_ros</depend>
     <depend>tf2_sensor_msgs</depend>
     <depend>visualization_msgs</depend>
=== src/universe/external/rtklib_ros_bridge (git) ===
diff --git a/rtklib_msgs/package.xml b/rtklib_msgs/package.xml
index 9e82a56..5c4070c 100644
--- a/rtklib_msgs/package.xml
+++ b/rtklib_msgs/package.xml
@@ -10,7 +10,7 @@
@@ -10,7 +10,7 @@
     <buildtool_depend>ament_cmake</buildtool_depend>
     <build_depend>roslidl_default_generators</build_depend>

-    <depend>builtin_interfaces</depend>
+    <!-- <depend>builtin_interfaces</depend> -->
     <depend>std_msgs</depend>
     <depend>geometry_msgs</depend>
     <depend>sensor_msgs</depend>
=== src/universe/external/tier4_ad_api_adapter (git) ===
diff --git a/autoware_iv_internal_api_adapter/package.xml b/autoware_iv_internal_api_adapter/package.xml
index 9f4f6cb..c772302 100644
--- a/autoware_iv_internal_api_adapter/package.xml
+++ b/autoware_iv_internal_api_adapter/package.xml
@@ -16,15 +16,15 @@
     <depend>autoware_auto_planning_msgs</depend>
     <depend>autoware_auto_system_msgs</depend>
```

```

- <depend>autoware_auto_vehicle_msgs</depend>
- <depend>geometry_msgs</depend>
+ <!-- <depend>geometry_msgs</depend> -->
  <depend>rclcpp</depend>
  <depend>rclcpp_components</depend>
- <depend>std_srvs</depend>
+ <!-- <depend>std_srvs</depend> -->
  <depend>tier4_api_utils</depend>
  <depend>tier4_auto_msgs_converter</depend>
  <depend>tier4_control_msgs</depend>
  <depend>tier4_external_api_msgs</depend>
- <depend>tier4_localization_msgs</depend>
+ <!-- <depend>tier4_localization_msgs</depend> -->
  <depend>tier4_perception_msgs</depend>
  <depend>tier4_planning_msgs</depend>
  <depend>tier4_system_msgs</depend>
diff --git a/awapi_awiv_adapter/package.xml b/awapi_
index 2a723eb..630faf4 100644
--- a/awapi_awiv_adapter/package.xml
+++ b/awapi_awiv_adapter/package.xml
@@ -21,13 +21,13 @@
  <depend>nav_msgs</depend>
  <depend>rclcpp</depend>
  <depend>sensor_msgs</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->
  <depend>tf2</depend>
  <depend>tf2_geometry_msgs</depend>
  <depend>tier4_api_msgs</depend>
  <depend>tier4_auto_msgs_converter</depend>
  <depend>tier4_control_msgs</depend>
- <depend>tier4_external_api_msgs</depend>
+ <!-- <depend>tier4_external_api_msgs</depend> -->
  <depend>tier4_planning_msgs</depend>
  <depend>tier4_system_msgs</depend>
  <depend>tier4_v2x_msgs</depend>
=== src/universe/external/tier4_aware_msgs (git)
diff --git a/tier4_auto_msgs_converter/package.xml b/
index 50a55eb..ff28cd8 100644
--- a/tier4_auto_msgs_converter/package.xml
+++ b/tier4_auto_msgs_converter/package.xml
@@ -16,6 +16,7 @@
  <depend>tier4_perception_msgs</depend>
  <depend>tier4_planning_msgs</depend>
  <depend>tier4_system_msgs</depend>
+ <depend>tier4_external_api_msgs</depend>
  <depend>tier4_vehicle_msgs</depend>

  <test_depend>ament_lint_auto</test_depend>
diff --git a/tier4_control_msgs/CMakeLists.txt b/tie
index 95f272d..e5825e9 100644
--- a/tier4_control_msgs/CMakeLists.txt
+++ b/tier4_control_msgs/CMakeLists.txt
@@ -23,7 +23,8 @@
@@ -23,7 +23,8 @@ rosidl_generate_interfaces(${PROJECT_NAME}
  "srv/SetPause.srv"
  DEPENDENCIES
    autoware_common_msgs
-   std_msgs
+   builtin_interfaces
+   # std_msgs
  )

  if(BUILD_TESTING)
diff --git a/tier4_control_msgs/package.xml b/tier4_
index 045c43c..8a03af9 100644

```

```

--- a/tier4_control_msgs/package.xml
+++ b/tier4_control_msgs/package.xml
@@ -12,7 +12,8 @@
   <build_depend>roslaunch</build_depend>

   <depend>autoware_common_msgs</depend>
-  <depend>std_msgs</depend>
+  <depend>builtin_interfaces</depend>
+  <!-- <depend>std_msgs</depend> -->

   <exec_depend>roslaunch</exec_depend>

diff --git a/tier4_localization_msgs/package.xml b/tier4_localization_msgs/package.xml
index 960d37f..f1f4347 100644
--- a/tier4_localization_msgs/package.xml
+++ b/tier4_localization_msgs/package.xml
@@ -11,7 +11,7 @@
   <build_depend>roslaunch</build_depend>

-  <depend>builtin_interfaces</depend>
+  <!-- <depend>builtin_interfaces</depend> -->
   <depend>geometry_msgs</depend>

   <exec_depend>roslaunch</exec_depend>

diff --git a/tier4_perception_msgs/package.xml b/tier4_perception_msgs/package.xml
index 36776fb..401edee 100644
--- a/tier4_perception_msgs/package.xml
+++ b/tier4_perception_msgs/package.xml
@@ -12,7 +12,7 @@
   <build_depend>roslaunch</build_depend>

   <depend>autoware_auto_perception_msgs</depend>
-  <depend>builtin_interfaces</depend>
+  <!-- <depend>builtin_interfaces</depend> -->
   <depend>geometry_msgs</depend>
   <depend>sensor_msgs</depend>
   <depend>std_msgs</depend>

diff --git a/tier4_planning_msgs/CMakeLists.txt b/tier4_planning_msgs/CMakeLists.txt
index 405d02d..d3d8786 100644
--- a/tier4_planning_msgs/CMakeLists.txt
+++ b/tier4_planning_msgs/CMakeLists.txt
@@ -46,7 +46,6 @@
   roslaunch_generate_interfaces(${PROJECT_NAME}
     geometry_msgs
     nav_msgs
     std_msgs
-    unique_identifier_msgs
   )

   if(BUILD_TESTING)

diff --git a/tier4_planning_msgs/package.xml b/tier4_planning_msgs/package.xml
index af298ef..ddd9c25 100644
--- a/tier4_planning_msgs/package.xml
+++ b/tier4_planning_msgs/package.xml
@@ -15,7 +15,7 @@
   <depend>geometry_msgs</depend>
   <depend>nav_msgs</depend>
   <depend>std_msgs</depend>
-  <depend>unique_identifier_msgs</depend>
+  <!-- <depend>unique_identifier_msgs</depend> -->

   <exec_depend>roslaunch</exec_depend>

diff --git a/tier4_simulation_msgs/CMakeLists.txt b/tier4_simulation_msgs/CMakeLists.txt
index de8e38a..92905f7 100644

```

```

--- a/tier4_simulation_msgs/CMakeLists.txt
+++ b/tier4_simulation_msgs/CMakeLists.txt
@@ -20,7 +20,8 @@ rosidl_generate_interfaces(${PROJECT_NAME}
    msg/SimulationEvents.msg
    msg/UserDefinedValue.msg
    msg/UserDefinedValueType.msg
-   DEPENDENCIES builtin_interfaces std_msgs)
+   DEPENDENCIES builtin_interfaces# std_msgs
+ )

if(BUILD_TESTING)
  find_package(ament_lint_auto REQUIRED)
diff --git a/tier4_simulation_msgs/package.xml b/tier4_simulation_msgs/package.xml
index e90d19e..1ea65e9 100644
--- a/tier4_simulation_msgs/package.xml
+++ b/tier4_simulation_msgs/package.xml
@@ -13,7 +13,7 @@
<buildtool_depend>rosidl_default_generators</buildtool_depend>

<depend>builtin_interfaces</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->

<exec_depend>rosidl_default_runtime</exec_depend>

diff --git a/tier4_v2x_msgs/CMakeLists.txt b/tier4_v2x_msgs/CMakeLists.txt
index 013cabf..007d319 100644
--- a/tier4_v2x_msgs/CMakeLists.txt
+++ b/tier4_v2x_msgs/CMakeLists.txt
@@ -21,7 +21,8 @@ rosidl_generate_interfaces(${PROJECT_NAME}
    "msg/VirtualTrafficLightState.msg"
    "msg/VirtualTrafficLightStateArray.msg"
    DEPENDENCIES
-     std_msgs
+     builtin_interfaces
+     # std_msgs
)

if(BUILD_TESTING)
diff --git a/tier4_v2x_msgs/package.xml b/tier4_v2x_msgs/package.xml
index d39a78e..57a2c56 100644
--- a/tier4_v2x_msgs/package.xml
+++ b/tier4_v2x_msgs/package.xml
@@ -12,7 +12,7 @@
<build_depend>rosidl_default_generators</build_depend>

<depend>builtin_interfaces</depend>
- <depend>std_msgs</depend>
+ <!-- <depend>std_msgs</depend> -->

<exec_depend>rosidl_default_runtime</exec_depend>

diff --git a/tier4_vehicle_msgs/CMakeLists.txt b/tier4_vehicle_msgs/CMakeLists.txt
index e7cefb9..50d7996 100644
--- a/tier4_vehicle_msgs/CMakeLists.txt
+++ b/tier4_vehicle_msgs/CMakeLists.txt
@@ -25,7 +25,7 @@ rosidl_generate_interfaces(${PROJECT_NAME}
    "msg/SteeringWheelStatusStamped.msg"
    "msg/VehicleEmergencyStamped.msg"
    "srv/UpdateAccelBrakeMap.srv"
-   DEPENDENCIES std_msgs geometry_msgs tier4_control_msgs
+   DEPENDENCIES std_msgs #geometry_msgs tier4_control_msgs
)

if(BUILD_TESTING)

```

```
diff --git a/tier4_vehicle_msgs/package.xml b/tier4_
index 40b1d2c..a943c22 100644
--- a/tier4_vehicle_msgs/package.xml
+++ b/tier4_vehicle_msgs/package.xml
@@ -11,9 +11,9 @@

<build_depend>roscpp</build_depend>

- <depend>geometry_msgs</depend>
+ <!-- <depend>geometry_msgs</depend> -->
<depend>std_msgs</depend>
- <depend>tier4_control_msgs</depend>
+ <!-- <depend>tier4_control_msgs</depend> -->

<exec_depend>roscpp</exec_depend>
=== src/vehicle/external/pacmod_interface (git) ===
=== src/vehicle/sample_vehicle_launch (git) ===
```



 **soblin** mentioned this issue on May 1, 2023

feat(ament_auto_find_build_dependencies): remove duplicate elements from found paths/libraries for performance

 Closed

ament/ament_cmake#444



 **VRichardJP** mentioned this issue on May 2, 2023

build: remove unused `<depend>` in package.xml files

 Draft

autwarefoundation/autware.universe#3606

 7 tasks



VRichardJP added a commit to VRichardJP/autware_common that referenced this issue on May 3, 2023



build: clean unused package.xml ... 0bcb6d4



 **VRichardJP** mentioned this issue on May 3, 2023

build: remove unused `<depend>` in package.xml files

 Draft

autwarefoundation/autware_common#177

 4 tasks



VRichardJP added a commit to VRichardJP/autware_auto_msgs that referenced this issue on May 3, 2023

 build: clean unused package.xml ... 85804ea



 **VRichardJP** mentioned this issue on May 3, 2023

build: remove unused `<depend>` in package.xml files

 Open

tier4/autoware_auto_msgs#41




VRichardJP added a commit to VRichardJP/tier4_autoware_msgs that referenced this issue on May 3, 2023

 build: clean unused package.xml ... 9d7e116



This was referenced on May 3, 2023

build: remove unused `<depend>` in package.xml files

 Draft

tier4/tier4_autoware_msgs#85

build: clean package xml

 Open

tier4/tier4_ad_api_adaptor#104



mitsudome-r commented on May 8, 2023

Member

@VRichardJP Good work!

I haven't looked through all the items in the list, but at least for lanelet2_extension, it should be using `geographiclib`. Likewise, there could be some non-ROS package (what you call "system dependencies" in your script) that shouldn't be removed from the dependencies.



VRichardJP added a commit to VRichardJP/autoware_common that referenced this issue on May 8, 2023

 build: clean unused package.xml ... cd9d29b



VRichardJP commented on May 8, 2023

Contributor

Author

@mitsudome-r

Thank you for pointing out `geographiclib`, indeed the library is not unused.

Btw, "[system dependencies](#)" is how ROS call them ^^

 1



VRichardJP added a commit to
VRichardJP/autoware_common that referenced this issue
on May 8, 2023



build: clean unused package.xml ... 541bbb5



VRichardJP added a commit to
VRichardJP/autoware_common that referenced this issue
on May 10, 2023



build: clean unused package.xml ... 954ae9b



VRichardJP added a commit to
VRichardJP/tier4_autoware_msgs that referenced this
issue on May 11, 2023



build: clean unused package.xml ... f292db7



VRichardJP mentioned this issue on May 22, 2023

remove unused depends

[Open](#)

autowarefoundation/awf_velodyne#41



mdabir1203 commented on Aug 20, 2023

I would like to take on this and how may I start. A little
example would be helpful



This was referenced on Sep 28, 2023

refactor(localization_packages):

[Merged](#)

remove unused <depend> in

packages.xml files

autowarefoundation/autoware.univers
e#5171

refactor(map_packages): remove

[Merged](#)

unused depend in pakcages.xml files

autowarefoundation/autoware.univers
e#5172

refactor(tier4_localization_msgs):

[Merged](#)

remove unused depend in

packages.xml files

tier4/tier4_autoware_msgs#105



 **xmfcx** added **type:new-feature** **type:build** and removed **Type: improvement** labels on Nov 14, 2023



 **xmfcx** added this to **Autoware Labs** on Nov 16, 2023

9 hidden items

[Load more...](#)



This was referenced on Jun 26

refactor(radar_fusion_to_detected_object)!: fix namespace and directory structure

autowarefoundation/autoware.univers
e#7650

 Merged

refactor(detection_by_tracker)!: fix namespace and directory structure

autowarefoundation/autoware.univers
e#7742

 Merged

refactor(ground_segmentation)!: fix namespace and directory structure

autowarefoundation/autoware.univers
e#7744

 Merged

refactor(occupancy_grid_map_outlier_filter)!: fix namespace and directory structure

autowarefoundation/autoware.univers
e#7748

 Merged



This was referenced on Jul 3

refactor(elevation_map_loader)!: fix namespace and directory structure

autowarefoundation/autoware.universe
#7807

 Closed

refactor(shape_estimation)!: fix namespace and directory structure

autowarefoundation/autoware.univers
e#7844

 Merged

refactor(detected_object_validation)!: fix namespace and directory structure

 Merged

autowarefoundation/autoware.univers
e#7866

**refactor(probabilistic_occupancy_gr
id_map)!: fix namespace and
directory structure**

 Merged

autowarefoundation/autoware.univers
e#7872

**refactor(radar_scan_to_pointcloud2
)!: fix namespace and directory
structure**

 Merged

autowarefoundation/autoware.univers
e#7912

**refactor(radar_static_pointcloud_filt
er): fix namespace and directory
structure**

 Merged

autowarefoundation/autoware.univers
e#7914



This was referenced on Jul 11

**refactor(traffic_light_map_based_d
etector): fix namespace and
directory structure**

 Merged

autowarefoundation/autoware.univers
e#7969

**refactor(elevation_map_loader): add
package name prefix `autoware_`, fix
namespace and directory structure**

 Merged

autowarefoundation/autoware.univers
e#7988

**refactor(image_projection_based_fu
sion): fix namespace and directory
structure**

 Merged

autowarefoundation/autoware.univers
e#7990



This was referenced on Jul 12

**refactor(tensorrt_yolox)!: fix
namespace and directory structure**

 Merged

autowarefoundation/autoware.univers
e#7992

**refactor(lidar_apollo_instance_segmen
tation)!: fix namespace and**

 Merged

directory structure

autowarefoundation/autoware.univers
e#7995

**refactor(lidar_apollo_segmentation_
tvm): remove**

 Merged

lidar_apollo_segmentation_tvm
packages**

autowarefoundation/autoware.univers
e#7996



This was referenced on Jul 12

**refactor(tensorrt_classifier)!: fix
namespace and directory structure**

 Merged

autowarefoundation/autoware.univers
e#8009

**refactor(lidar_transfusion)!: fix
namespace and directory structure**

 Merged

autowarefoundation/autoware.univers
e#8022

**refactor(lidar_centerpoint)!: fix
namespace and directory structure**

 Merged

autowarefoundation/autoware.univers
e#8049



a-maumu commented on Jul 18 • edited ▾

Recent result of `unused_deps.sh` run on `main` branch

► results (package.xml file without unused message is filtered out)

 2



 **veqcc** mentioned this issue on Jul 18

**fix(mrm_handler,
emergency_handler): remove
unnecessary depend**

 Merged

autowarefoundation/autoware.univers
e#8099



 **YoshiRi** mentioned this issue on Jul 22

**refactor(bytetrack): fix namespace
and directory structure**

 Merged

autowarefoundation/autoware.univers
e#8125



a-maumau commented on Jul 22 • edited ▾

I updated some of the recent including style of autoware sources which appears in the result of [above comment](#) for `unused_deps.sh` .

Basically, the rule is like `autoware_motion_utils` -> `autoware/motion_utils` , so it may possible to automatically generate the regular expressions.

... well, some of them seems still with `autoware_*` .

► `unused_deps.sh`



1



VRichardJP commented on Jul 22

Contributor

Author

Would it make sense to have this script somewhere like https://github.com/autowarefoundation/autoware_tools?



KYabuuchi mentioned this issue on Jul 25

refactor(localization): remove unnecessary dependency in localization packages

Merged

autowarefoundation/autoware.univers
e#8202



YamatoAndo commented on Jul 30

Would it make sense to have this script somewhere like

https://github.com/autowarefoundation/autoware_tools

?

I think it is a good idea!

[@youtalk](#) [@mitsudome-r](#) What do you think?



youtalk commented on Jul 30

Member

[@YamatoAndo](#) Please make the PR. I would like to review it.



YamatoAndo commented on Jul 31

@youtalk Sure! I will collaborate with @a-maumau to make the PR.



a-maumau mentioned this issue on Aug 2

**feat(dependency_checker): add
dependency checker script**

Merged

autwarefoundation/autware_tools#8

9

7 tasks



a-maumau commented on Aug 2

@youtalk @VRichardJP

I made a PR for the script in autware_tools:

[autwarefoundation/autware_tools#89](https://github.com/autwarefoundation/autware_tools/pull/89)

sorry, I don't have the authority to assign the assigners so if possible, please assign yourself.



1