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Documentation Status

common_msgs: [actionlib_msgs \(/actionlib_msgs?distro=melodic\)](#) | [diagnostic_msgs \(/diagnostic_msgs?distro=melodic\)](#) | [geometry_msgs \(/geometry_msgs?distro=melodic\)](#) | [nav_msgs \(/nav_msgs?distro=melodic\)](#) | [sensor_msgs \(/sensor_msgs?distro=melodic\)](#) | [shape_msgs \(/shape_msgs?distro=melodic\)](#) | [stereo_msgs \(/stereo_msgs?distro=melodic\)](#) | [trajectory_msgs \(/trajectory_msgs?distro=melodic\)](#) | [visualization_msgs \(/visualization_msgs?distro=melodic\)](#)

Package Links

- [Tutorials \(/common_msgs/Tutorials\)](#)
- [Troubleshooting \(/common_msgs/Troubleshooting\)](#)
- [FAQ \(http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:common_msgs/page:1/\)](http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:common_msgs/page:1/)
- [Changelog \(http://docs.ros.org/en/melodic/changelogs/common_msgs/changelog.html\)](http://docs.ros.org/en/melodic/changelogs/common_msgs/changelog.html)
- [Change List \(/common_msgs/ChangeList\)](#)
- [Reviews \(/common_msgs/Reviews\)](#)

Dependencies (10)

Used by (1)

Jenkins jobs (9)

Package Summary

✓ Released ✓ Continuous Integration: 3 / 3 ✓ Documented

common_msgs contains messages that are widely used by other ROS packages. These includes messages for actions ([actionlib_msgs \(http://wiki.ros.org/actionlib_msgs\)](#)), diagnostics ([diagnostic_msgs \(http://wiki.ros.org/diagnostic_msgs\)](#)), geometric primitives ([geometry_msgs \(http://wiki.ros.org/geometry_msgs\)](#)), robot navigation ([nav_msgs \(http://wiki.ros.org/nav_msgs\)](#)), and common sensors ([sensor_msgs \(http://wiki.ros.org/sensor_msgs\)](#)), such as laser range finders, cameras, point clouds.

- Maintainer status: maintained
- Maintainer: Tully Foote <foote AT osrfoundation DOT org>
- Author:
- License: BSD
- Source: [git https://github.com/ros/common_msgs.git](https://github.com/ros/common_msgs.git) (https://github.com/ros/common_msgs) (branch: jade-devel)

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1. Message and Service Types

This is a summary of the msg (/msg) and srv (/srv) types available in the various ROS packages (/Packages) in the common_msgs stack. For more documentation, please see the relevant package.

2. Standard Units of Measure and Coordinate Conventions

Please see [REP 103 \(http://www.ros.org/reps/rep-0103.html\)](http://www.ros.org/reps/rep-0103.html) for documentation on the standard units of measure and coordinate conventions followed here.

3. Purpose of common_msgs stack

Isolating the messages to communicate between stacks in a shared dependency allows nodes in dependent stacks to communicate without requiring dependencies upon each other. This stack has been designed to contain the most common messages used between multiple stacks to provide a shared dependency which will eliminate a problematic circular dependency.

4. Guidelines for submitting to common_msgs

To be accepted into common_msgs the package needs to have been API reviewed and be in active use in a non trivial amount of the ROS ecosystem. It's really supposed to represent messages which are commonly used.

On the way to becoming a member of common_msgs please release a message only package and make it available to the community. Once it has matured, been reviewed, tested and possibly iterated upon by early adopters then it can be promoted to be a member of the common_msgs metapackage.

5. Packages within common_msgs

5.1 actionlib_msgs

ROS Message Types

GoalID (http://docs.ros.org/en/api/actionlib_msgs/html/msg/GoalID.html)
 GoalStatus (http://docs.ros.org/en/api/actionlib_msgs/html/msg/GoalStatus.html)
 GoalStatusArray (http://docs.ros.org/en/api/actionlib_msgs/html/msg/GoalStatusArray.html)

5.2 diagnostic_msgs

ROS Message Types

DiagnosticArray (http://docs.ros.org/en/api/diagnostic_msgs/html/msg/DiagnosticArray.html)
 DiagnosticStatus (http://docs.ros.org/en/api/diagnostic_msgs/html/msg/DiagnosticStatus.html)
 KeyValue (http://docs.ros.org/en/api/diagnostic_msgs/html/msg/KeyValue.html)

ROS Service Types

AddDiagnostics (http://docs.ros.org/en/api/diagnostic_msgs/html/srv/AddDiagnostics.html)
 SelfTest (http://docs.ros.org/en/api/diagnostic_msgs/html/srv/SelfTest.html)

5.3 geometry_msgs

ROS Message Types

Accel (http://docs.ros.org/en/api/geometry_msgs/html/msg/Accel.html)
 AccelStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/AccelStamped.html)
 AccelWithCovariance (http://docs.ros.org/en/api/geometry_msgs/html/msg/AccelWithCovariance.html)
 AccelWithCovarianceStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/AccelWithCovarianceStamped.html)
 Inertia (http://docs.ros.org/en/api/geometry_msgs/html/msg/Inertia.html)
 InertiaStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/InertiaStamped.html)
 Point (http://docs.ros.org/en/api/geometry_msgs/html/msg/Point.html)
 Point32 (http://docs.ros.org/en/api/geometry_msgs/html/msg/Point32.html)
 PointStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/PointStamped.html)
 Polygon (http://docs.ros.org/en/api/geometry_msgs/html/msg/Polygon.html)
 PolygonStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/PolygonStamped.html)
 Pose (http://docs.ros.org/en/api/geometry_msgs/html/msg/Pose.html)
 Pose2D (http://docs.ros.org/en/api/geometry_msgs/html/msg/Pose2D.html)
 PoseArray (http://docs.ros.org/en/api/geometry_msgs/html/msg/PoseArray.html)
 PoseStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/PoseStamped.html)
 PoseWithCovariance (http://docs.ros.org/en/api/geometry_msgs/html/msg/PoseWithCovariance.html)
 PoseWithCovarianceStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/PoseWithCovarianceStamped.html)
 Quaternion (http://docs.ros.org/en/api/geometry_msgs/html/msg/Quaternion.html)
 QuaternionStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/QuaternionStamped.html)
 Transform (http://docs.ros.org/en/api/geometry_msgs/html/msg/Transform.html)
 TransformStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/TransformStamped.html)
 Twist (http://docs.ros.org/en/api/geometry_msgs/html/msg/Twist.html)
 TwistStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/TwistStamped.html)
 TwistWithCovariance (http://docs.ros.org/en/api/geometry_msgs/html/msg/TwistWithCovariance.html)
 TwistWithCovarianceStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/TwistWithCovarianceStamped.html)
 Vector3 (http://docs.ros.org/en/api/geometry_msgs/html/msg/Vector3.html)
 Vector3Stamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/Vector3Stamped.html)
 Wrench (http://docs.ros.org/en/api/geometry_msgs/html/msg/Wrench.html)
 WrenchStamped (http://docs.ros.org/en/api/geometry_msgs/html/msg/WrenchStamped.html)

5.4 nav_msgs

ROS Message Types

GridCells (http://docs.ros.org/en/api/nav_msgs/html/msg/GridCells.html)
 MapMetaData (http://docs.ros.org/en/api/nav_msgs/html/msg/MapMetaData.html)
 OccupancyGrid (http://docs.ros.org/en/api/nav_msgs/html/msg/OccupancyGrid.html)
 Odometry (http://docs.ros.org/en/api/nav_msgs/html/msg/Odometry.html)
 Path (http://docs.ros.org/en/api/nav_msgs/html/msg/Path.html)

ROS Service Types

GetMap (http://docs.ros.org/en/api/nav_msgs/html/srv/GetMap.html)
 GetPlan (http://docs.ros.org/en/api/nav_msgs/html/srv/GetPlan.html)
 LoadMap (http://docs.ros.org/en/api/nav_msgs/html/srv/LoadMap.html)
 SetMap (http://docs.ros.org/en/api/nav_msgs/html/srv/SetMap.html)

ROS Action Types

GetMap (http://docs.ros.org/en/api/nav_msgs/h)

5.5 sensor_msgs

ROS Message Types

ROS Service Types

[BatteryState](http://docs.ros.org/en/api/sensor_msgs/html/msg/BatteryState.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/BatteryState.html)
[CameraInfo](http://docs.ros.org/en/api/sensor_msgs/html/msg/CameraInfo.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/CameraInfo.html)
[ChannelFloat32](http://docs.ros.org/en/api/sensor_msgs/html/msg/ChannelFloat32.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/ChannelFloat32.html)
[CompressedImage](http://docs.ros.org/en/api/sensor_msgs/html/msg/CompressedImage.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/CompressedImage.html)
[FluidPressure](http://docs.ros.org/en/api/sensor_msgs/html/msg/FluidPressure.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/FluidPressure.html)
[Illuminance](http://docs.ros.org/en/api/sensor_msgs/html/msg/Illuminance.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Illuminance.html)
[Image](http://docs.ros.org/en/api/sensor_msgs/html/msg/Image.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Image.html)
[Imu](http://docs.ros.org/en/api/sensor_msgs/html/msg/Imu.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Imu.html)
[JointState](http://docs.ros.org/en/api/sensor_msgs/html/msg/JointState.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/JointState.html)
[Joy](http://docs.ros.org/en/api/sensor_msgs/html/msg/Joy.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Joy.html)
[JoyFeedback](http://docs.ros.org/en/api/sensor_msgs/html/msg/JoyFeedback.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/JoyFeedback.html)
[JoyFeedbackArray](http://docs.ros.org/en/api/sensor_msgs/html/msg/JoyFeedbackArray.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/JoyFeedbackArray.html)
[LaserEcho](http://docs.ros.org/en/api/sensor_msgs/html/msg/LaserEcho.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/LaserEcho.html)
[LaserScan](http://docs.ros.org/en/api/sensor_msgs/html/msg/LaserScan.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/LaserScan.html)
[MagneticField](http://docs.ros.org/en/api/sensor_msgs/html/msg/MagneticField.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/MagneticField.html)
[MultiDOFJointState](http://docs.ros.org/en/api/sensor_msgs/html/msg/MultiDOFJointState.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/MultiDOFJointState.html)
[MultiEchoLaserScan](http://docs.ros.org/en/api/sensor_msgs/html/msg/MultiEchoLaserScan.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/MultiEchoLaserScan.html)
[NavSatFix](http://docs.ros.org/en/api/sensor_msgs/html/msg/NavSatFix.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/NavSatFix.html)
[NavSatStatus](http://docs.ros.org/en/api/sensor_msgs/html/msg/NavSatStatus.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/NavSatStatus.html)
[PointCloud](http://docs.ros.org/en/api/sensor_msgs/html/msg/PointCloud.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/PointCloud.html)
[PointCloud2](http://docs.ros.org/en/api/sensor_msgs/html/msg/PointCloud2.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/PointCloud2.html)
[PointField](http://docs.ros.org/en/api/sensor_msgs/html/msg/PointField.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/PointField.html)
[Range](http://docs.ros.org/en/api/sensor_msgs/html/msg/Range.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Range.html)
[RegionOfInterest](http://docs.ros.org/en/api/sensor_msgs/html/msg/RegionOfInterest.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/RegionOfInterest.html)
[RelativeHumidity](http://docs.ros.org/en/api/sensor_msgs/html/msg/RelativeHumidity.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/RelativeHumidity.html)
[Temperature](http://docs.ros.org/en/api/sensor_msgs/html/msg/Temperature.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/Temperature.html)
[TimeReference](http://docs.ros.org/en/api/sensor_msgs/html/msg/TimeReference.html) (http://docs.ros.org/en/api/sensor_msgs/html/msg/TimeReference.html)
[SetCameraInfo](http://docs.ros.org/en/api/sensor_msgs/html/srv/SetCameraInfo.html) (http://docs.ros.org/en/api/sensor_msgs/html/srv/SetCameraInfo.html)

6. Migrating Messages

Please see the [common_msgs 1.0 migration guide \(/common_msgs/1.0_Migration_Guide\)](#).

7. Report a Bug

<<[TracLink\(ros-pkg common_msgs\)](#)>>

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