ROS Lyrical Release

ROS Lyrical Release WG Notes

- Chair: [sloretz](#)
- [Working group charter](#)
- [Discourse thread](#)
- [Google meet link](#)

Meeting link changed! It's now [Google Meet](#)

Next Meeting:
- **Monday, Apr 20, 2026 9:30 AM PDT**

April 20th, 2026

April 20, 2026

- FYI:
  - API and Feature Freeze **April 20 - EOD (11:59 PDT)**
    - All PMC managed repos (todo change docs)
  - Both windows nightlies failed with compile error in Zenoh - probably affects CI
    - Fixed; now connext is not building on windows
    - Scott: connext 7.7.0 communication issue on local machine
- Any features still not merged?
  - https://github.com/ros2/rclcpp/pull/3134
    - Green ci; needs 1 more review (Component container)
  - https://github.com/ros2/launch_ros/pull/536
    - Green ci; needs 1 more review (Component container)
  - ~~https://github.com/ros2/rclcpp/pull/3135~~
    - Merged
  - https://github.com/ros2/realtime_support/pull/140
    - Remove allocator memory strategy - CI is red
  - https://github.com/ros2/rcl/pull/1206
    - Check double usage of entities in rcl_wait - CI is red
  - https://github.com/ros2/rosidl/pull/935
    - Install .idl files to same folders as msg/srv/action - seems like active discussion
  - ~~https://github.com/ros2/rclcpp/pull/3130~~
    - Merged - Fix topic statistics - approved; green CI except windows
  - https://github.com/ros2/rclpy/pull/1620
    - Needs to rerun with:
      - https://github.com/ros2/ci/pull/868
  - https://github.com/ros2/rosidl_buffer_backends/pull/1
    - May just need a release, not subject for freeze (Release before distro freeze on May 18th, or after GA)
  - https://github.com/ros2/rosidl_buffer_backends_tutorials/pull/1
    - May just need a release, not subject for freeze (Release before distro freeze on May 18th, or after GA)
- Follow ups from last meeting:
  - Lots of bloom activity; Waiting for a 0.14 release before rolling Rolling
    - Still need a last Rolling sync
    - ros_workspace patch to say packages won't get updates
      - Patch only noble deb in gbp repo
  - Looks like Ubuntu Resolute ros-apt-source PR landed https://github.com/ros-infrastructure/ros-apt-source/pull/32 ; appears we still need a release
    - https://github.com/ros-infrastructure/ros-apt-source/pull/33

- - - Will need a couple PRs ros/rosdistro for checksums for the ros-apt-source deb/rpm
    - Need to request a Rolling sync
    - Windows 11 status?
        - https://github.com/ros2/ci/issues/855#issuecomment-4282587203
        - Summary: whack a mole game continues. Builds with regressions. Issue above tracks them + assumptions. Security enclaves not loading? Ros2cli daemon not starting. ros2 multicast command (test cross talk?).
        - cottsay: If it's test regressions (not build regressions), we have to move forward. Win10 is deprecated.
        - Plan: Roll to Windows 11 tomorrow after the freeze
        - <mark>Consequence: Drop Windows 10 in Humble + Jazzy; Maybe bump Kilted to Windows 11</mark>
        - Scott: request to keep single Windows 10 worker online, Involve ROS PMC on dropping Windows on other ROS Distros
            - Clara: separate ci_windows job for Windows 10, need to decide how
    - Did not check if rqt runs in Ubuntu Noble
    - C++20 status? Done!
- Open discussion
    - Experimental events executor (Lots of tests use this)
        - MJC: prefer a nice deprecation warning
        - Sloretz: Can land deprecation warning after freeze, before release
    - MSVC 2022 Fallout
    - CY Chen: PR reviews Cuda + Torch backend, tutorial
        - Can probably build, but not run on CI without CUDA install
        - MJC: Might just need to be released, so not subject to today's freeze
    - Python executor requires RHEL 10 - needs newer version of Python
        - Scott: Thought for retrospective: trying to land features using versions on new platforms, should have rolled Rolling a couple weeks ago
    - Scott: RTI says they've discovered issue that made us switch to async publishing, they have updated debs, want to know if we would accept them, or wait until first patch release?
        - Clara: if they put the debs in a github repo, we can test them in CI (by pointing CI to this other github repo)
    - Janosch: Timeline for switching
        - Need: rolling sync,
    - Rolling status page: https://repo.ros2.org/status_page/ros_rolling_default.html
        - 900 regressions

April 13th, 2026

April 13, 2026

- Follow up discussion points from last meeting
- RMW freeze PRs/Issues
- Open discussion about what needs to be worked on, and what decisions need to be made

Known Test failures

Windows

```
None
rcl: TestSubscriptionFixture.test_subscription_content_filtered
rcl:
TestSubscriptionFixture.test_subscription_not_initialized_with_content_filtering
rcl: WaitSetTestFixture.negative_timeout
rcl: WaitSetTestFixture.no_wakeup_on_override_timer
rcl_action:
TestActionCommunication.test_valid_feedback_content_filter_add_one_goal_id
rcl_action:
TestActionCommunication.test_valid_feedback_content_filter_remove_one_goal_id
rcl_action:
TestActionIntrospection.test_action_client_valid_cancel_goal_service_event
rcl_action:
TestActionIntrospection.test_action_server_valid_cancel_goal_service_event
rclcpp: TestContentFilterSubscription.content_filter_get_begin
rclcpp: TestContentFilterSubscription.content_filter_get_later
rclcpp: TestContentFilterSubscription.content_filter_reset
test_rmw_implementation: TestContentFilterSubscriptionUse.content_filter_get_begin
test_rmw_implementation: TestContentFilterSubscriptionUse.content_filter_get_later
test_rmw_implementation: TestContentFilterSubscriptionUse.content_filter_reset
test_rmw_implementation: TestSubscriptionUse.no_content_filter_set
demo_nodes_cpp: test_processes_output
rosbag2_transport: ClockPublishFixture.clock_respects_playback_rate
rosbag2_transport:
RecordSrvsPublishMultipleTopicsTest.resume_topic_filter_triggers_on_tracked_topic
rosbag2_transport: RecordSrvsSimTimeTest.resume_by_receive_time_immediate_due
rosbag2_transport:
RosBag2PlayTestFixture.high_freq_topics_does_not_starve_in_multibag_playback
test_rclcpp: test_timeout_subscriber.timeout_subscriber
test_tf2: StaticTransformPublisher.multiple_parent_test
```

The rosbag2_transport tests appear to have had failures on all RMW implementations except Connext.

Test_tf2 has a failure in StaticTransformPublisher test

Linux aarch64

- point_cloud_transport: qos_override

Notes

- FYI:
    - Alpha + RMW freeze, **April 13 - EOD (11:59pm PDT)**
    - API and Feature Freeze **April 20 - EOD (11:59 PDT)**
- Follow up from last meeting
    - 100ish Windows regressions from Zenoh
        - Worked around first by reverting 1.8.0 bump
        - Merged 1.8.0 bump again https://github.com/ros2/rmw_zenoh/pull/964
    - Follow up: Windows 11 jobs not being as green as we thought
    - T&T Party:
        - Do we have a new ros2-testing-apt-source deb for Ubuntu Resolute? (Not yet)
    - Transition to Resolute and RHEL 10
        - Hoping to do this week - need to figure out how
        - Process: Run the migration script.
            - Declare a starting point in ros/rosdistro
            - Freeze Rolling
            - Run migration script (iterative process) (roll rolling onto itself with new declared platforms
            - Everything will get a deb increment bump, some may not make it
            - Expect many regressions on RHEL 10 b/c missing deps in EPEL 10
            - Need more time (follow up with Scott April 14th)
                - Want to land changes in bloom for dynamic RPMs before rolling Rolling
                - Announce heads up to users about these platforms not getting patches
            - Recommend injecting bloom patch that warns when sourcing ros_workspace
            - Do a final sync after blooming packages in Rolling for Noble / RHEL 9
            -
- RMW Freeze status

- ○ ConnextDDS
  - ■ Using 7.7.0 (vs 7.3.0 in Kilted)
  - ■ 🟡 Test failures in Windows
    - ● demo_nodes_cpp: test_parameter_events_async, timeout
    - ● rcl_action: content filter and discovery
    - ● rcl: content filtering and discovery
    - ● rclcpp: content filtering
    - ● test_rmw_implementation: Content filter
- ○ CycloneDDS
  - ■ Using 11.0.x (vs 0.10.x in Kilted)
  - ■ 🟡 Test failures in Windows
    - ● rcl: waiting and timers
    - ● test_rclcpp: timeout subscriber
- ○ Fast-DDS
  - ■ Using 3.6.x branch (vs 3.2.x in Kilted)
  - ■ No known issues
- ○ Zenoh
  - ■ Merged 1.8.0 (looks like it's being backported to older distros, so not unique to Lyrical)
  - ■ No known issues
- ● Open Discussion
  - ○ Is Windows building?
    - ■ Need to use MSVC 2022 for C++20 support
    - ■ Seen build failures in:
      - ● https://github.com/ros2/rclcpp/pull/3124
  - ○ Follow up: Windows 11 jobs not being as green as we thought
    - ■ Clara: Pretty sure regressions are caused by configuration changes - playing whack-a-mole with containers on Windows. Should be somewhat easier to identify regression causes post Zenoh fixes
    - ■ Windows 11 has 70 regressions, Windows 10 has 20 (which are also seeing on Win 11)
      - ● Win 11: problems seems to be coming from slowness while writing to disk. Still trying to get Metrics. Need a couple more days to look into this
      - ● Win 11 introduced changes related to security (Unable to load a file) and folder structure (ros2 daemon not starting up)
  - ○ Compile error in rviz_common with Qt5 in RHEL 9
    - ■ **Fix**, revert, or ignore and roll to RHEL 10?
    - ■ Alex: preparing fixes for rviz_common build issue on RHEL
  - ○ Scott: Are we expecting to support Qt5 still
    - ■ MJC: we should not support Qt5
    - ■ Scott: make sure we communicate if we don't support Qt5
    - ■ Alex: CI jobs on Noble probably using Qt5, RQT tools on Noble probably don't run. TODO check rqt Noble.

- - - Alex: RViz should compile and run with Qt6
  - ament_ros_defaults https://github.com/ros2/ament_cmake_ros/pull/62
    - rmw_connextdds compile error needs investigating
    - Should be fixed by Clara deploying MSVC 2022 deployment on ci.ros2.org - TODO see if Janosch's PR comes back green with this change
  - 10 days from Resolute release - if we need hot fixes, this is the week
  - When to do CI change to Resolute - Need to follow up with Scott before deciding
  - Tully - FYI Addisu has a bloom upgrade that makes checkout of ros/rosdistro much faster

April 6th, 2026

April 6, 2026

- Follow up discussion points from last meeting
- RMW freeze PRs/Issues
- Open discussion about what needs to be worked on, and what decisions need to be made

Notes

- FYI: Next deadline is Alpha + RMW freeze, **April 6 - EOD (11:59pm PDT)**
- RMW Freeze
  - Features
    - Update CycloneDDS to 11.0.1 https://github.com/ros2/ros2/pull/1808
      - TODO check if warnings have regressed on Windows
    - Update ros2/ci to use ConnextDDS 7.7.0
      - https://github.com/ros2/ci/pull/844
      - https://github.com/ros2/rmw_connextdds/pull/219
    - Need to deploy MSVC 2022 ci.ros2.org https://github.com/ros2/ci/pull/856
      - Clara to deploy today to ci.ros2.org
    - Buffer types
      - https://github.com/ros2/rosidl/pull/942
      - https://github.com/ros2/rosidl/pull/943
      - https://github.com/ros2/rosidl_typesupport_fastrtps/pull/144
      - https://github.com/ros2/rosidl_python/pull/250
      - https://github.com/ros2/rosidl_runtime_py/pull/39
      - https://github.com/ros2/rosidl_core/pull/14
      - https://github.com/ros2/rmw_fastrtps/pull/867
      - Focused on Fast-RTPS support
        - Had zenoh PR before, but not included in this release (assume it can be backported post Lyrical CA)
          - Aim for patch-1 release for Zenoh
        - CycloneDDS uses introspection typesupport - cannot support Buffer types in introspection typesupport?
          - Introspection tries to access types directly
          - Supports get/index operations, but no way to implement those methods to get from GPU memory, which would mean copying whole message from GPU -> CPU
      - To merge:
        - All PRs approved, waiting for CI
        - Green on all except Windows (Need to compare to Windows nightly)

- - - ○ Run Windows CI run without zenoh enabled
      - Running CI: https://github.com/ros2/rosidl/pull/943#issuecomment-4193826347
  - ○ Bugs
    - Fast-DDS Fails to build on Ubuntu Resolute: https://github.com/eProsima/Fast-DDS/pull/6354
    - ros2param test failure caused by Zenoh bump https://github.com/ros2/rmw_zenoh/issues/951
- Open Discussion
  - ○ Windows CI is sequential executor (part of why it takes longer)
    - Timeouts on Zenoh tests, causing CI to take longer
    - 100ish regressions from Zenoh
      - Revert Zenoh bump to land buffer types instead
      - If zenoh is wire and API compatible, can land after release
      - Regressions started 5 days ago (zenoh version is issue, not rust version)
        - https://github.com/ros2/rmw_zenoh/pull/935
        - For retrospective - zenoh merged with regressions in CI, ci.ros2.org worked there.
  - ○ Windows 11
    - Jobs are not as green as we thought - Jenkins failed to pull failures from logs
    - Clara looking into regressions
  - ○ T&T party
    - MJC request to Andrew: Tutorials on Bazel for TT party?
    - Need new ros2-testing-apt-source deb for Resolute
  - ○ Transition to Resolute and RHEL 10 this week (post RMW freeze)
  - ○ Bazel update
    - Support rcl-c, rclcpp, rclpy
    - Lots of static linking (4 different middlewares)
    - Created new tooling to generate bazel modules with dependencies from ros/rosdistro, and apply bazel-specific patches
    - Attempted to get shared-libraries working
      - Goal: tar layer on top of Resolute container (rules_oci ?)
    - RMW environment variable implementation does not work
    - Turtlesim + qt loading in Bazel (c++ bindings for Qt)
      - Hints that RViz may be possible in Bazel
    - Brought in a few packages not in ros_core (tf2)
    - Intrinsic hosting warm remote action cache in GCS bucket
      - Fresh build in 30 seconds if your CPU arch matches
    - Goal: Announce something for people to try April 19th

March 30, 2026

March 30, 2026

- Follow up discussion points from last meeting
- Make a list of pull requests that need review
- Open discussion about what needs to be worked on, and what decisions need to be made

Notes

- FYI: Next deadline is Alpha + RMW freeze, **April 6 - 7 days from this meeting**
- Follow ups from last meeting
  - No feedback against updating Rolling pixi.toml in ROS 2 meeting
    - MSVC 2022 updates to pixi.toml [merged](#)
    - [Merged](#) rust 1.85 pixi.toml update
  - Pytest >=8.4 compatibility [fixed](#)
  - CycloneDDS 11.x
    - Looks like they need a new user added to release repo:
      - https://github.com/ros2-gbp/ros2-gbp-github-org/issues/1012
        - Ping cottsay
      - https://github.com/eclipse-cyclonedds/cyclonedds/issues/2372
    - Still need updates to rmw_cyclonedds
      https://github.com/ros2/rmw_cyclonedds/pull/550
  - C/C++ version all in one place PR:
    - Moved to ament_cmake_ros:
      https://github.com/ros2/ament_cmake_ros/pull/62
- Pull requests needing review
  - Qt6
    - ~~Support Qt6 ros-visualization/rqt_plot#127~~
    - ~~Support Qt6 ros-visualization/rqt_msg#27~~
    - ~~Support Qt6 ros-visualization/rqt_reconfigure#158~~
    - ~~Support Qt6 ros-visualization/rqt_console#58~~
    - ~~Support Qt6 ros-visualization/rqt_graph#114~~
    - ~~Support Qt6 ros-visualization/rqt_publisher#56~~
    - ~~Support Qt6 ros-visualization/rqt_service_caller#38~~
    - ~~Support Qt6 ros-visualization/rqt_bag#206~~
  - Lyrical target platforms: ~~https://github.com/ros2/ros2_documentation/pull/6295~~
  - TODO figure out remaining rcl:Buffer PRs that need merging
  -
- Open discussion
  - MSVC 2022: Need to compare test failures with current nightly
    https://github.com/ros2/ci/pull/856

- ■ Kimberly: Hard to compare with existing windows test failures, because tests are very flakey
- ○ Next time: Clara Windows 11 update (Clara on vacation currently)
- ○ Mjcarroll: Tutorial party timing
  - ■ Sloretz: after Feature freeze on April 13th
- ○ Mjcarroll 26.04 progress:
  - ■ Qt6 is last known issue causing red builds
  - ■ Compiler warnings in ros2/system_tests
- ○ Janosch: rmw_cylconedds PR (adding key support): performance cut in half in benchmarks (not in in actual system)
  - ■ Suspected cause: structure used to represent types has doubled in size, and used for reading and writing. Janosch recommends splitting struct
    - ● Mjcarroll: internal, not ABI/API breaking. Suggest merge now and treat performance regression as a bug
  - ■ Janosch to approve and merge - needs someone to start CI (sloretz to start CI)
- ○ Structured parameters: move to REP; will not make Lyrical release

March 23, 2026

March 23, 2026

- Follow up discussion points from last meeting
- Make a list of pull requests that need review
- Open discussion about what needs to be worked on, and what decisions need to be made

Notes

- FYI: Next deadline is Alpha + RMW freeze, **April 6 - 14 days from this meeting**
- Follow ups from last meeting
  - CycloneDDS
    - Warnings suppressed in 10.x: https://github.com/eclipse-cyclonedds/cyclonedds/pull/2373
      - Key support PR in rmw_cylconedds should fix warnings rather than suppress them
    - Console spam in 10.x
      - Remove content filtering check? https://github.com/ros2/rcl/pull/1304
    - 11.x progress
      - https://github.com/eclipse-cyclonedds/cyclonedds/issues/2372
      - https://github.com/ros2/rmw_cyclonedds/pull/550
  - MSVC2022
    - Need to merge pixi OpenCV version bump https://github.com/ros2/ros2/pull/1801
  - Previously discussed rolling Rolling on this date
    - Since we pin versions on Windows 11, recommend rolling to Windows 11 while delaying Ubuntu migration since Ubuntu versions can change under us, impacting CI.
      - Windows 11: builds with regressions - both ROS and infrastructure regressions, non-deterministic CI (containers on windows 11 maybe not being fully cleaned up?)
        - https://github.com/ros2/ci/issues/855
      - Clara: Pixi.toml updates and Windows 11 are different decisions. Pixi.toml has been static since Christ created it. Fine to roll pixi whenever ROS PMC decides. Wait on Windows 11 until regressions are fixed
      - Kim: Intent was to map pixi.toml to as much of Ubuntu as possible. (Humble pixi.toml is different from Jazzy pixi.toml). Related: mjcarroll talked about relaxing pixi.toml constraints
  - Rust version

- ■ Resolute default is 1.92 https://packages.ubuntu.com/resolute/rustc
- ■ Pixi.toml PR changing to 1.85 https://github.com/ros2/ros2/pull/1785
- ■ Skyler: Not sure if conscious choice
- ■ Janosch: Discussed rust version in CLWG, not sure what was agreed on; check with zetascale
- ■ Kim: Was discussion on version too low are unable to handle Zenoh's rust lockfile. Might be a conscious decision to support rust version in 22.04 (Humble). Suggest including rust version in REP-2000 docs (now ROS 2 docs) like C, C++, and Python versions
  - ● https://github.com/ros2-rust/ros2_rust/discussions/561
  - ● https://openrobotics.zulipchat.com/#narrow/channel/526027-ROS-General/topic/rustc.20to.201.2E85.3F/with/567724473
    - ○ From esteve: "I proposed 1.85 because it's the version that Debian Trixie ships with and because it matches the minimum version required for Rust 2024. Ubuntu Resolute will ship with 1.88 and given that Lyrical is the only one that has the code generator (rosidl_generator_rs) as one of the default generators, we should be fine with 1.85"
  - ○ rviz_ogre_vendor
    - ■ Patched rviz_ogre_vendor: https://github.com/ros2/rviz/pull/1684
    - ■ Most likely won't try to remove this vendor package in Lyrical
      - ● https://github.com/ros2/ros2/pull/1805
      - ● https://github.com/ros2/rviz/pull/1683
  - ○ C++ / C versions
    - ■ PR to set it all in one place https://github.com/ament/ament_cmake/pull/621
- ● Pull requests needing review
  - ○ python3-qt-bindings rosdep key: https://github.com/ros/rosdistro/pull/50338
  - ○ REP 2000 docs https://github.com/ros2/ros2_documentation/pull/6249
  - ○ Key support https://github.com/ros2/rmw_cyclonedds/pull/550
    - ■ Janosch: testing this PR with Cylcone 10.x looks fine
  - ○ Bugs:
    - ■ https://ci.ros2.org/job/ci_linux/28170/
    - ■ (BUILD) Launch_test pytest >= 8.4 compatibility PR https://github.com/ros2/launch/pull/949
    - ■ Flake8 regressions https://github.com/ros2/ci/issues/838#issuecomment-3952892450
      - ● In rclpy
    - ■ New compiler warnings https://github.com/ros2/system_tests/issues/584
    - ■ Launch testing threading issues https://github.com/ros2/launch/issues/948
  - ○ Features
    - ■ Structured parameter PR https://github.com/ros2/rclcpp/pull/2944 - Needs review / test (Created by a GSoC student) - Lyrical feature

- rcl::Buffer PRs: https://github.com/ros2/rmw/pull/416 (this one Michel approved)
- Rclpy async node: https://github.com/ros2/rclpy/pull/1620 - Needs reviews
- Callback group events executor https://github.com/ros2/rclcpp/pull/3097
  - Open discussion
    -

March 16th, 2026

March 16th, 2026

- Follow up discussion points from last meeting
- Make a list of pull requests that need review
- Open discussion about what needs to be worked on, and what decisions need to be made

Notes:

- Follow ups from last meeting
  - Lyrical release timeline and target platforms: https://github.com/ros2/ros2_documentation/pull/6295
    - Have not asked Kat about tutorial party timing
  - TODO Roll Rolling to Windows 11, Ubuntu 26.04 & RHEL 10
    - Implies rolling before Ubuntu release on April 23
    - Last time: Rolled just after Ubuntu Noble release, or very close to release
    - This time: Roll early, risk rebuilding Rolling if system deps in Ubuntu change
    - Clara: Builds on Rolling have test failures / compiler warnings (build failures for Qt packages)
    - Mjcarroll: option to wait until RMW feature freeze on April 6, to avoid impacting CI of those features. Desire green CI before rolling so that it's harder to merge broken features due to unclear origin of test failures
- Pull requests needing review:
  - Port REP 2000 to docs https://github.com/ros2/ros2_documentation/pull/6249
  - New release of CylconeDDS would resolve thousands of build warnings on MSVC 2022 https://github.com/ros2/rmw_cyclonedds/pull/550 , out of our control if CylconeDDS will release in time (Janosch looking into this PR)
    - Janosch: Cross vendor DDS interop broken (wstring support) between FastDDS and CycloneDDS - TODO Ping Miguel and about it
    - Janosch: CycloneDDS is hidden behind rmw interface - maybe it doesn't need to happen before Lyrical release.
    - Conflicting memories of purpose of RMW freeze: Is it just the RMW API, or is it stability of ROS due to breaking rmw changes during the release process?
    - What does Connext do? Does it work with either CylconeDDS or Fast-DDS? - Waiting for new Connext binaries https://github.com/ros2/ci/pull/844
    - Possible path forward: Disable cross-vendor system tests, merge Cylcone PR, then let DDS vendors figure out wstring incompability

- - - - ■ Alt: Suppress compiler warnings on existing version of CylconeDDS https://github.com/eclipse-cyclonedds/cyclonedds/pull/2343 - patch in Release repo?
      - ■ Scott: Add to colcon.pkg in CylconeDDS cmake and compiler flags
      - ■ Scott: Colcon meta file in ci.ros2.org to pass flags to suppress warnings in Cylconedds
      - ■ Mjcarroll: fork CylconeDDS
    - ○ Structured parameter PR https://github.com/ros2/rclcpp/pull/2944 - Needs review / test (Created by a GSoC student) - Lyrical feature
    - ○ rcl::Buffer PRs: https://github.com/ros2/rmw/pull/416 - Needs reviews
    - ○ Rclpy async node: https://github.com/ros2/rclpy/pull/1620 - Needs reviews
    - ○ https://github.com/ros2/rclcpp/pull/3097 - Have a review, addressing feedback
    - ○ Ubuntu Resolute issues https://github.com/ros2/launch/pull/949
      - ■ Launch_pytest needs ROS PMC review
    - ○ https://github.com/ros2/ci/issues/838 - need someone to investigate and fix
    - ○ Pixi.toml PR changes
      - ■ OpenCV (draft until Rolling rolls to 26.04) https://github.com/ros2/ros2/pull/1801 Needed to build on MSVCC 2022 transition (only held back by CylconeDDS compiler warnings)
      - ■ Rust1.85 https://github.com/ros2/ros2/pull/1785
      - ■ Ogre dependency https://github.com/ros2/ros2/pull/1805
- ● Open discussion
  - ○ Any reason not to deprecate rviz_ogre_vendor?
    - ■ https://github.com/ros2/rviz/pull/1683
    - ■ Scott: Check patches on rviz_ogre_vendor, what are they trying to do?
    - ■ Scott: Manual performance testing with system package\
    - ■ Janosch: Another ogre vendor package from Gazebo with strange build flags
    - ■ Mjcarroll: 1.12.10 is in Ubuntu, version 1.14 is available on conda-forge, but not in Ubuntu packages. Ogre is typically statically linked. If we remove vendor package, we may end up re-introducing the vendor package if we want to update for 14 later. Unlikely we'll migrate to ogre-next
    - ■ Shane: option to patch min cmake version and kick the can
  - ○ Drop pydocstyle, or kick can down the road? https://github.com/ament/ament_lint/issues/497
  - ○ Ubuntu Resolute Lyrical Dockerfile https://gist.github.com/sloretz/52648d0799c18238388ce1344f194b4c
  - ○ Janosch: C++20 bump - yes go ahead. Same with C17.
    - ■ MJC: latest MISRA covers C++20
    - ■ Rob Woolley: VxWorks & QNX support C++ 20
  - ○

Feb 27th, 2026

Feb 27th, 2026

- Identify what's being worked on, and who is working on it
- Make a list of pull requests that need review
- Discuss a proposed release timeline
- Open discussion about what needs to be worked on, and what decisions need to be made

Notes:

- **Identify what's being worked on**:
  - Bazel Integration (asymingt)
  - QT6 Migration (ahcorde)
    - Need 6.10, but has 6.9.2 - can fix with more verbose CMake functions for generating Python bindings (to python_cmake_bindings pkg?)
    - Andrew: 6.9 is not a long-term release, surprised that Resolute would choose it
      - Mjcarroll: Qt doesn't support system packages - Canonical does - we've had this problem before
  - ament_target_dependencies removal fixes (Moveit, rtabmap, rosbag_introspection) (ahcorde)
  - CL WG: Janosch + Skyler POCs
    - Events executor (rclcpp)
    - Python Asyncio executor (rclpy)
  - Ahcorde: Accelerated memory working group (nVidia doing the dev work, PRs not yet opened) - they know deadline is probably first week april b/c RMW changes. Ahcorde suggested adding headers first, and implementation post release. They're motivated for Lyrical
  - Rosidl improvements (office hours discussion), cmake fix, cache layer. Goal is to reduce build time of interfaces. Mjcarroll to manage this one
  - Structured parameters (Janosch) - TODO(mjcarroll) find open PR - should have top level ros2/ros2 issue
    - https://github.com/ros2/ros2/issues/1734
  - Logging improvements (Tomoya) may need to be added to changelog, work is done - there should be a discourse post
  - Gazebo changes possible - Jetty - talk to Addissu
  - Python type hinting (Michael Carlstrom)
  - Likely Fast-DDS bump (Miguel)
  - Likely ConnextDDS bump - Required for Windows 11 (compiler warnings). Scott says next week binaries.
  - SwiftDDS - Need PMC discussion

- ○ Infra team work: could announce with lyrical, but not blocking (cargo support)
  - ■ https://github.com/ros2/ros2/issues/1724
- ○ Dynamic RPM builds (Infra PMC) - Runtime and devel subpackages for RHEL
- ○ Buildtime resolution of group dependencies (would make it easier to support non-core group members like GurumDDS and SwiftDDS)
- ○ Python package deprecations (setup.py,) - cottsay - Does not block Lyrical release
  - ■ https://github.com/ros2/ros2/issues/1738
- ○
- **Issues / Pull requests needing attention**
  - ○ Ubuntu Resolute tracker (aggregates all regressions) https://github.com/ros2/ci/issues/838
    - ■ Clara running out of time allocation to address these, need to call for more hands
    - ■ Launch_pytest not building with pytest version on resolute
    - ■ <mark>Clara says need help soonest on</mark>: gcc 15 errors in ros2/system_tests
      - ● https://github.com/ros2/system_tests/issues/584
  - ○ Launch_testing regressions in process naming (maybe threading change in cPython 3.14?) - needs to be triaged
    - ■ https://github.com/ros2/launch/issues/948
  - ○ No module rosidl_generator_py https://github.com/ros2/ros2/issues/1650
  - ○ Drop pydocstyle https://github.com/ament/ament_lint/issues/497
  - ○ Windows 11: investigate why test_launch_ros hangs (old issue now worse)
  - ○ QT6 6.9 does not work with provided CMake macros for Python bindings (Options; provide our own macros or upgrade to > 6.10) - shiboken is broken - does sip6 work?
  - ○ https://github.com/ros2/ros2_documentation/pull/6249
- **Proposed timeline**: (TL;DR Kilted 1 day earlier)
  - ○ **Mon. April 6, 2026** - Alpha + RMW freeze
    - ■ Preliminary testing of ROS Base packages
    - ■ API and feature freeze for RMW provider packages.
  - ○ **Mon. April 13, 2026** - Freeze
    - ■ API and feature freeze for ROS Base packages in Rolling Ridley.
    - ■ Only bug fix releases should be made after this point.
    - ■ New packages can be released.
  - ○ **Mon. April 20, 2026** - Branch
    - ■ Branch from Rolling Ridley
    - ■ rosdistro is reopened for Rolling PRs for ROS Base packages.
    - ■ Lyrical development shifts from ros-rolling-* packages to ros-lyrical-* packages.
  - ○ **Mon. April 27, 2026** - Beta
    - ■ Updated releases of ROS Desktop packages available.
    - ■ Call for general testing.
  - ○ **Thu, April 30, 2026** - Kick off Tutorial Party

- Open up tutorials for community testing.
  - ○ **Mon. May 11, 2026** - Release Candidate
    - Build release candidate packages up to ROS Desktop
  - ○ **Mon. May 18, 2026** - Distro Freeze
    - Freeze all Lyrical branches on all ROS desktop packages
    - No pull requests for any Lyrical branch or targeting lyrical/distribution.yaml in rosdistro repo will be merged.
  - ○ **Friday May 22nd, 2026** - General Availability
    - Release announcement.
    - ROS desktop packages source freeze is lifted and rosdistro is reopened for Lyrical pull requests.
  - ○ <mark>TODO</mark>
    - Ask Kat about timeline for tutorial party since it's community driven
    - Clara: When to migrate Rolling to new target platforms on ci.ros2.org and buildfarm
      - Scott: consider migrating Rolling as soon as Ubuntu Resolute is "ready enough"
      - Clara: do this as early as possible because there are going to be a lot of community package fixes that we need to do
      - Migrating rolling before this timeline, we would migrate as soon as we have the core building and Resolute is released.
      - Need to update rosdep dependencies for blooming for Resolute
      - Scott: Recommend migrating to RHEL 10 Resolute at the same time, they don't have to be done together, but each requires a rebuild so better to do platforms together.
        - ○ Migrating to Windows 11 is purely [ci.ros2.org](ci.ros2.org) - migrate as soon as we have a green build
        - ○ RHEL 10: only QT6 has python_bindings, pydocstyle
          - RHEL may make breaking changes, RHEL may switch to QT 6.10 shortly
        - ○ Michael carroll: disable everything above qt6 python bindings, and roll right now?
          - Scott: that's what we do now for RHEL
- **Open discussion**:
  - ○ How is this meeting time? **Respond here**.
  - ○ Likely Target Platforms
    - Tier 1
      - Ubuntu Resolute Racoon (26.04)
      - Windows 11
    - Tier 2
      - RHEL 10
    - Tier 3
      - Debian Trixie (EOL earlier than Lyrical: 2028-08-09)

- Scott: Support from-source build of previous release at Tier 3 (for LTS)
  - Clara: Has seen people use this as a migration path
- Mjcarroll: pixi from source as Tier 3 - solves jetson and weird linux distro issues (esteve very interested in this)
  - Scott: Once pixi Lyrical is working on Windows, try it and Document it on Linux
- Likely Language Requirements
  - C++20 ([Discourse thread](#))
  - C17
  - Python 3.12 (RHEL) 3.13 (Debian) 3.14 (Ubuntu / Windows)
- What versions in pixi.toml?
  - Clara: what versions? Lock to ubuntu?
  - Mjcarroll: Unpin as much as possible in pixi file, generate a pixi.lock file for CI? Why:
    - Clara: We already ship a pixi.lock file for Windows - running it with "frozen"
  - What are we committing to in pixi.toml?
  - Scott: pixi.toml versions are probably stale - unpinning pip packages on [ci.ros2.org](#) was broken
  - Mjcarroll: renovate bot that systematically updates pixi.lock file
    - Mjcarroll: suggest pin to "ranges" of packages? > or < some versions to give some flexibility. Maybe default to minor bump. Solved set of versions should not be in pixi.toml - but constraints are okay. Need to decide what constraints to hold do.
  - Clara: pinning on Windows as a Tier 1 difficult. How do packages get security updates?
- Release art is in progress
- Clara: Knows Kim has ideas, will send her meeting notes
- Ninja generator, connext installation -> to the Infra PMC

Feedback for retrospective

Feedback for retrospective

Pre-write announcements

Sloretz: I got super sick when the RMW freeze happened, and didn't have announcements ready for the end of the RMW freeze, and the upcoming feature freeze. Then it took me until Friday night to ask for help.

Testing Connext on Windows

It looks like ros2/ci uses a private repo to install ConnextDDS on Windows machines. I don't have access to this repo, so even though I have a windows machine I'm unable to try to debug these locally
https://github.com/ros2/ci/blob/8842fcefcd27f3613572cae4b4dd06e746170e93/windows_docker_resources/rti_web_binaries_install_script.ps1#L79-L92

Zenoh 1.8.0 merged with Windows test failures

CI for https://github.com/ros2/rmw_zenoh/pull/935 caught 138 new test failures on windows, but every other platform was already yellow with an existing test failure. This PR should not have been merged.

Need bigger time allocation

Sloretz: March 30th, currently 40% of my time is allocated to Lyrical release. Recommend next ROS Boss asks for bigger time allocation.

CI is slow

Sloretz: March 23rd, long time to wait for CI results.

Build Queue (24) ⌄

ci_linux ✕

ci_windows ✕

ci_linux-rhel ✕

ci_linux ✕

ci_windows ✕

ci_linux ✕

ci_windows ✕

ci_linux-rhel ✕

ci_linux ✕

ci_windows ✕

ci_linux-rhel ✕

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