# OpenCPI PI-007 Sprint, James Sprint PI-Planning Summary

## PI Name

***PI-007 - Sprint, James Sprint***

## PI Dates

11/14/2022 - 4/28/2023

There will be 12 Sprints in this PI rather than the typical 10 due to the Thanksgiving and Christmas Holidays and the need for feedback from both an Alpha and Beta release of OpenCPI 2.5.0.

## PI Meaning

This PI is named after the legendary spy - Bond, James Bond - aka 007.

Sprints names will be Sprint puns based on James Bond related sayings, movies, and such.

## PI Focus

### Overall

1. Release of OpenCPI 2.4.4 and possibly OpenCPI 2.4.5 in support of the DIVE and CODE integration events.
2. Release of OpenCPI 2.5.0 with the addition of the OpenCPI GUI Node Graph, new platform support, and numerous issue fixes.
3. Continue updates for OpenCPI 3.0.0 - particularly updates that will take a long length of time to complete.

### PI-007 Sprint, James Sprint - High Level Features

#### 2.4.X

1. Customer Support and Updates for OpenCPI 2.4.4

a) 2 TX / 2 RX Issue Resolution

b) Vivado 2021.1 Support

c) X310 Support Issues

d) Air-Gapped Install Instruction Updates

e) OSP integration support (E320, N310, Z3U)

f) DGRDMA Performance Tuning Guildelines

g) Other DIVE & CODE Issues

2. Formal Test of OpenCPI 2.4.4

3. Release of OpenCPI 2.4.4

4. Potential 2.4.5 release (March 2023)

a) X310 UDP Support

b) Vivado 2021.2 Support (if available)

5. Potential 2.4.6 release (Summer 2023)

a) HiTech Global RFSoC support

b) Beast+ OSP support

#### 2.5.0

1. Test of Beta Release of OpenCPI 2.5.0
2. Release of Beta Release of OpenCPI 2.5.0
3. Formal Test of Release OpenCPI 2.5.0
4. Release of OpenCPI 2.5.0
5. CI/CD Pipeline Updates

a) Auto Scaling for CI/CD Pipeline

b) Add new test apps to pipeline (Zigbee, ADSB (receive))

c) Add new develop platforms (Rocky, Ubuntu, etc) and OpenCPI release versions (2.4.X, 2.5.X, 3.0.X) to CI/CD Pipeline

6. OpenCPI GUI Node Graph

7. Partner Support

8. OSP integration support (E320, N310, Z3U)

9. OpenCPI GUI automated testing

10. ocpidev automated testing

11. Training and Tutorial Updates for OpenCPI 2.5.0

12. Dev Platform Support Updates - Drop Ubuntu 16, Add Rocky 8, Add newer Ubuntu

13. automate performance testing / non-breaking ACI changes (required for automated performance testing)

-------------- Possibly moved to next PI

14. Add Intel GX support

-------------- Moved to next PI

15. Add Linter to code updates / pipeline

16. Add virus checker to code updates / pipeline

#### 3.0.0

1. Update Python version used
2. ocpidev redesign
3. Remove XI:include (started in previous PI, almost complete)
4. Port collisions issue
5. ACI Breaking Changes (determine and prioritize for future work)

----------- Possibly moved to next PI

1. Fix errors found by stronger error checks
2. Remove old CSWM protocol

----------- Moved to next PI

1. Redesign Training

### All

1. Pipeline Test Coverage Analysis
2. Lab development Roadmap
3. Documentation Updates
4. Continued Release Planning and Updating
5. JIRA ticketing system research

## Tentative Planned PI-007 Releases

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| --- | --- | --- |
| **Release** | **Release Target** | **Notable Content** |
| OpenCPI 2.4.4 | January 2023 | Platform support (N310, Z3U), Updated X310 support, two transmit / two receive solution, Vivado 2021.1 Support, Updated Air-Gap Install Instructions, DGRDMA Performance Tuning Guildelines |
| OpenCPI 2.4.5 | March 2023 | X310 UDP Support, Vivado 2021.2 Support |
| OpenCPI 2.4.6 | Summer 2023 | Mastodon Beast+ support, HiTech Global RF Soc support |
| OpenCPI 2.5.0 | April 14, 2023 | OpenCPI GUI Node Graph  OpenCPI 2.4.X fixes - particularly DIVE and CODE event fixes and platform inclusions  Enhancements useful for OpenCPI Developers |