

Cypress

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Agenda

- What is Cypress?
- The continual need for certification and testing
- How Cypress performs certification testing
- How Cypress is provided to the community
- Demonstration

What is Cypress?

- A testing tool
 - Validates Electronic Health Record (EHR) system's ability to correctly calculate electronic Clinical Quality Measures (eCQM).
- The official testing tool for the 2015 EHR Certification program
 - Supported by the Office of the National Coordinator for Health IT (ONC).
- An open-source project
 - Freely available for use or adoption by the Health IT community including EHR vendors and testing labs.

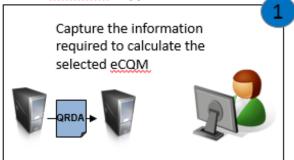
The continual need for certification and testing

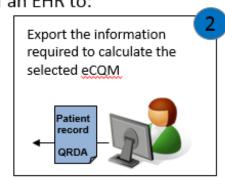
- eCQMs exist in a fluid environment
 - eCQMs are updated in a yearly cycle to address
 - Changes in clinical practices
 - The addition and removal of codes
 - Bugs in measure logic
 - New and retired measures
 - eCQM standard updates
- Each year, certified systems need to update their systems to comply with the updates to eCQMs and standards
 - Even though recertification is not required, vendors retest their systems using Cypress

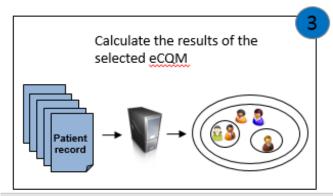
What Does Cypress Test?

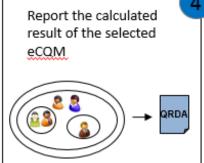
Eiven a set of patients and eCQMs, Cypress tests the ability of an EHR to:

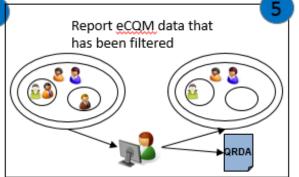




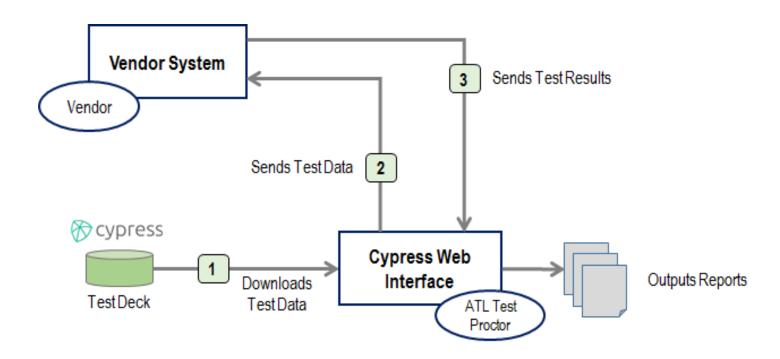








Testing Workflow



How is Cypress made available?

- Cypress is developed as Open Source
 - Source code is made freely available and may be redistributed and modified.
- Cypress releases are distributed as a
 - Virtual Machine
 - A fully enclosed version which can be installed as-is on an organizations network
 - Amazon Machine Imagine
 - A virtual machine that can be run on Amazon's Elastic Compute Cloud
 - Demo Server
 - Publically available instances of Cypress
 - https://cypress.healthit.gov/
 - https://cypressvalidator.healthit.gov/
 - Distribution model allows for EHR's vendors to install and use Cypress locally within their organization's firewalls to prior to certification

Engagement with the user community

- The Cypress development team is continually engaged with its user community (certification bodies, and EHR vendors):
 - Cypress hosts bi-weekly tech talk
 - Register at https://attendee.gotowebinar.com/register/8110364277730751489
 - All tech talks and webinars are posted on the Cypress website
 - https://www.healthit.gov/cypress/techtalks.html
 - Continually engage with EHR community
 - Through a Google Group forum/discussion board
 - project-cypress-talk@googlegroups.com
 - Public Issue tracking
 - https://oncprojectracking.healthit.gov/support/browse/CYPRESS
- Cypress releases Beta versions prior to each official release seeking inputs from user community
- Many usability enhancements proposed from user community have been included in a Cypress release

Demonstration

- Vendor receiving feedback on a failed test
- Test Proctor Dashboard and exporting the results of a test
- Cypress Validation Utility