CodeMatch Overview

● **What is CodeMatch?**
  ● Marketplace which brings together students, researchers, professors, open source development communities, vendors with proprietary implementations, and consumers of code bases

● **Objectives**
  ● Link existing implementations to standards
  ● Showcase opportunities to develop running code for IETF protocols
  ● Provide clear benefits to each user type from increased collaboration

● **Grace Hopper Celebration**
  ● Initial idea came from discussions with students and professors to help provide options for them to engage in the IETF, working with ISOC at GHC
  ● Scope and objectives expanded with help from the diversity design team members and numerous contributors

For more information: [https://codematch.ietf.org/](https://codematch.ietf.org/)
CodeMatch Goals

- Open collaboration platform for running code of IETF protocols
- Connect drafts/RFCs in a measurable way to running code
  - Open source and proprietary
- Coordinating activities related to code and IETF work
  - Note, we are not GitHub, we link to open source and proprietary
- Increased collaboration with under represented communities
  - Engage with Universities, get students interested in the IETF
  - Engage and collaborate with open source communities
  - Engage under-represented regions: ISOC, Latin America for IETF 95
- Low barrier entry point to the IETF
Benefits for Participants

- Speed-up implementations of IETF protocols
- Increase visibility of implementations
- Coordination of plugtests
- Matches between universities & industry to sponsor capstone projects
- Opportunity to improve resume: students, job transitions
- Demonstrate multiple interoperable implementations of drafts/RFCs
CodeMatch Roadmap

- Idea Origination & Planning (Oct. 2013)
- Mockups v1 (Jul. 2014)
- Data Model v1 (Nov. 2014)
- Prototype v1 (Dec. 2014)
- User Interface Testing
  - Card sort & IETF 92 UX testing (Sunday)
  - Adjust prototype from feedback (April 2015)
- Development (Starting Soon!)
CodeMatch Development

- **Phase 1** - Basic functionality to create CodeMatches, enable CodeRequests and Mentor assignments, match published drafts to existing code bases (Yokohama)

- **Phase 2** - Improved Functionality such as organizing ‘Plug Fests’, notifying developers of confirmed errata, dashboards for management and statistics, advertise IRTF and ISOC incentives for coders (Buenos Aires)

- **Phase 3** - Advanced Features such as reputation scoring for code bases, ability for coders to request help to create drafts from feature developed, etc. (Seoul)

Feature list by phase: https://drive.google.com/folderview?id=0B-dir4eV4Ih1V2tQSDdNRndrdGc&usp=sharing
IETF CodeMatch

Here comes the short description of IETF CodeMatch, informing its goals, results so far, etc. Here comes the short description of IETF CodeMatch, informing its goals, results so far, etc. Here comes the short description of IETF CodeMatch, informing its goals, results so far, etc.

- **CodeMatches**
  Who's implementing what?

- **CodeRequests**
  Which coding opportunities are offered by the IETF?

- **Coders Hall-of-Fame**
  The stars of IETF CodeMatch!
CodeMatches

Order by: Project | Coder | CodeRequest | Protocol | Area | Working Group

**Codename by Coder**
A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out.

**SmartProbes by Peter Louis**
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**PersonalOrchestrator by MyNFV Team**
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CodeRequests

Order by: CodeRequest | Protocol | Area | Release date | Popularity | Working Group

TWAMP - Two-Way Active Measurement Protocol

- Distributed detection of SLA violations - July 26, 2014
  A paragraph describing the offered implementation. A paragraph describing the offered implementation. A paragraph describing the offered implementation. A paragraph describing the offered implementation. A paragraph describing the offered implementation. A paragraph describing the offered implementation.
  CodeMatches: SmartProbes | ManP2P

- Distributed detection of SLA violations - July 26, 2014
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  CodeMatches: SmartProbes | ManP2P

SNMP - Simple Network Management Protocol

- Distributed detection of SLA violations - July 26, 2014
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  CodeMatches: SmartProbes | ManP2P
Distributed detections of SLA violations

Protocol: TWAMP
Area: IRTF
Working Group: NMRG - Network Management Research Group

Description
A paragraph describing the implementation that needs to be carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out.

Resources
Mentor: John Paul
Mailing list: dist_sla_detection@ietf.org - https://www.ietf.org/mailman/listinfo/dist_sla_detection
Twitter: #dist_sla_detection
Facebook: http://www.facebook.com/dist_sla_detection

CodeMatches
- SmartProbes
- ManP2P

Social (Facebook, Twitter, etc.) container
CodeRequests

Order by: CodeRequest I Protocol I Area I Release date I Popularity I Working Group

TWAMP - Two-Way Active Measurement Protocol

To associate a project, you must first log in to IETF CodeMatch.

User: ____________________________  
Password: ____________________________

Log in  Cancel

Forgot password I Sign up

SNMP - Simple Network Management Protocol

Distributed detection of SLA violations - July 26, 2014

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CodeMatches: SmartProbes I ManP2P
MyCodeMatches

Order by: Project | CodeRequests | Protocol | Area | Working Group

Codename by Coder
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SmartProbes by Peter Louis
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SmartProbes

By: Peter Louis
Mentor: John Paul
CodeRequest: Distributed detection of SLA violations
Protocol: TWAMP
Area: IRTF

Description
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Resources
GitHub: https://github.com/ufrgs-hyman/meican
Wiki: http://wiki-redes.inf.ufrgs.br/SmartProbes
Google Drive: http://drive.google.com/SmartProbes
Mailing list: smartprobes@ietf.org - https://www.ietf.org/mailman/listinfo/smartprobes
Twitter: @smartprobes, #smartprobes
Facebook: http://www.facebook.com/smartprobes

Social (Facebook, Twitter, etc.) container
Distributed detection of SLA violations - July 26, 2014
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CodeMatches: SmartProbes | ManP2P
Data Model

Diagram:

- Project
  - Title
  - Description
  - Link to Implementation
  - Additional information

- CodeMatch

- Match
  - Title
  - Protocol
  - Area
  - Description
  - CodeRequest

- Link

- Specification (RFC or I-D)

- Coder

- User
  - Mentor

- CodeRequest
  - Estimated LoE
  - Additional information

- Belongs

- Working Group
IETF CodeMatch

Accelerating the implementation of new protocols

Dashboard

Coding Requests

Codename by Coder
A paragraph describing the implementation that's being carried out. A paragraph describing the implementation that's being carried out. A paragraph

SmartProbes by Peter Jedi
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MyOrchestrator by OpenNFV Team
A paragraph describing the
IETF CodeMatch
Accelerating the implementation of network technologies

SmartProbes

Codename

View All

Dashboard

Coding Requests

Codename by Coder
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MyOrchestrator by OpenNFV Team
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NETCONF - NETwork CONFiguration

Distributed detection of SLA violations
July 26, 2014

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Associate my project
CodeMatches

CodeMatches

SmartProbes

ManP2P

View All
CodeMatch Contributors

- Alejandro Acosta
- William Atwood
- Toral Cowieson
- Kristin Burgh
- Lars Eggert
- Lisando Granville
- Brian Haberman
- Wanderson Jesus
- Suresh Krishnan
- Henrik Levkowetz
- Carlos Martinez
- Kathleen Moriarty
- Jéferson Nobre
- Christian O’Flaherty
- Vyria Paselk
- Pete Resnick
- Michael Richardson
- Thomas Schmidt
- Robert Sparks
- Brian Trammell
- Matthias Waehlisch
- Dave Waltermire
- Lixia Zhang
Asks

- WGs & Individuals: Think about drafts that might be a good target for CodeMatch
  - Mentor required for CodeRequests
  - Estimated development time needed
- If you are interested to join the team developing the site, subscribe to mailing list:
  - CodeMatch-develop@ietf.org
- Assistance from Apps are requested to help select appropriate icons
- Timeline is fluid and depends on volunteers, please consider contributing
Asks (cont.)
Thank you!

CodeMatch Development Team

https://codematch.ietf.org/