

Coaching UVM Projects

An individual approach

Part 3

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UVM Coach

- Solving UVM problems
- Finalizing an UVM Project
- Summarizing Achievements
- Final Project Review
- Defining Areas for Improvements
- Defining Approaches for Improvements
- Leaving the customer



Solving UVM problems

- Typical UVM issues
 - Sequence does not start
 - Un-constructed dynamic objects (dereferencing ...)
 - Register not found
- It is your responsibility to find a solution!
- The solution comes from
 - You at support level 1
 - Your customer at support level 2/3
- The response time is either
 - 6 hours or
 - Overnight
- Showing the customer issue resolution has the right



Solving UVM problems

- Where to look for solutions
 - Exercise your personal knowledge
 - Investigate your personal coding examples
 - Search the UVM Documentations
- Have in mind: UVM issues are to be under your control



Finalizing an UVM Project

- When are you done with the project?
 - Investigate the Engagement Letter for deliveries
 - Check the project tracking list
 - Talk to the customer about the availability of all results agreed on
- Start summarizing results and achievements
- Prepare project review
- Prepare code for the final review
- Check verification planning/management status
- Summarize areas of improvements
- Prepare acceptance memo



Summarizing Achievements

- Look for the results reached in detail
- Basis is your contract and the definitions there
- Look for additional achievements not listed in your contract
- Talk to the customer about all achievements to get his conformation
- Ask him if he sees additional results
- Prepare material for the final project review



Defining Areas for Improvements

- Each task in a project will not be executed in the best way due to
 - Restrictions
 - Limited knowledge etc.
- During project execution (regular progress reviews) you'll continuously identify areas for improvements focused on
 - Schedule
 - SV implementation style
 - UVM implementation style
 - Verification planning/management
- Summarize your findings
- At the end of the project look from a higher view to find additional areas



Defining Approaches for Improvements

- Investigate the list for improvements with respect to possible implementations
- Talk to other UVM experts to get the right view
- Group the findings regarding functionality, like
 - Sequence execution
 - Scoreboarding etc.
- Look for solutions ranging into the future
 - Avoid deprecated UVM constructs
- Define and document approaches to implement improvements
- Communicate to the customer



Leaving the customer

- Ask for a final meeting with the customer's management
- Present the final results on a high level (management like ...)
- Focus on benefits
- In case of open issues demonstrate they are all under control
- Ask for future projects
- Last but not least: Get the acceptance memo signed
- Leave the customer