RAPITA SYSTEMS
A DANLAW COMPANY

Safety through quality

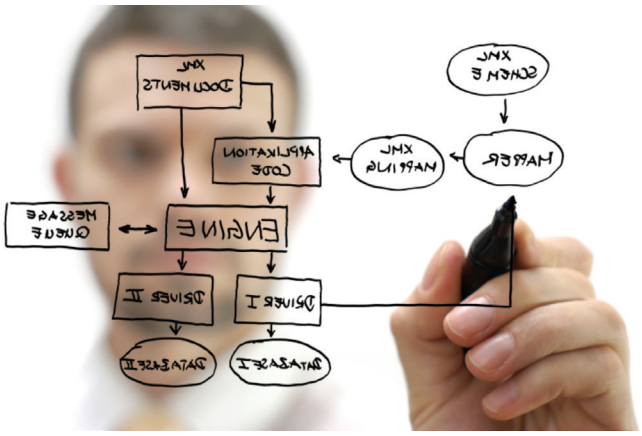
PRODUCT BRIEF

R**VS** Proof of Concept Study

Product brief: R**VS** Proof of Concept Study

When you believe that R**VS** could benefit your development, but need to know more about integrating it with your specific system, a Proof of Concept (PoC) Study is the logical next step.

Because of the variety and complexity of embedded systems, our experience tells us that a one-size-fits-all approach to on-target verification tools is impractical. This is why our PoC studies focus on understanding your specific development environment and needs to generate a custom R**VS** integration that extracts the best possible verification results from your system.



Key principles

Three key principles lie at the heart of every Rapita PoC study; PoCs:

1. Demonstrate the capabilities of the R**VS** tools you need
2. Prove the feasibility and potential of using R**VS** on your system
3. Offer a platform for further collaboration

During PoC studies, selected R**VS** tools are tested on a subset of your system, results are analyzed and a report is produced to demonstrate the benefits you could achieve by using R**VS**.

Continued collaboration is a key outcome of PoC studies, so next steps are identified and discussed during every study.

How do Proof of Concept studies work?

Step 1 – agree objectives

We agree on a subset of your system that is suitable for preliminary analysis with R**VS** and gather information from you on the technical details of your system (processor, memory, compiler, etc) using our *Target Integration Questionnaire*.

Based on this information, we agree on objectives, milestones and timescales for the PoC study.

Step 2 – preparatory research

We learn more about your system, needs and ideal outcomes of the study through technical discussions with your engineers and perform preparation work ahead of the PoC visit at your site.

Step 3 – site visit

One of our Field Application Engineers visits your site to integrate R**VS** into your system and produce R**VS** results from analysis on the agreed subset of your system. In some cases, this work can be carried out remotely.

Step 4 – present results

We gather evidence and data from the study, which we use to produce the final PoC report. This includes:

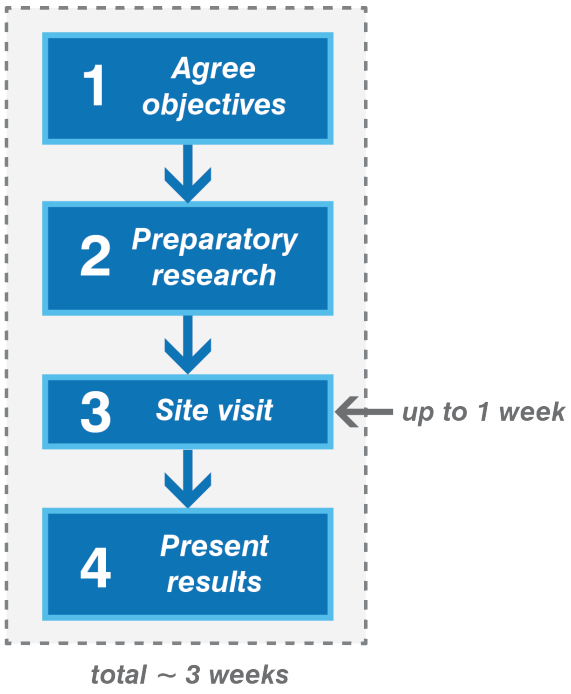
- An executive summary
- An assessment of your needs
- A technical description of your system
- A list of the activities we performed throughout the PoC study
- Results and recommended next steps

We then deliver this report and agree on a plan to move forward. We also contact you to gather your feedback on the study.

Timescales

We aim to complete the full PoC study (Steps 1 - 4) in about three weeks.

The site visit (Step 3) lasts for up to one week.



*R**VS** Proof of Concept Study timeline*

What can I expect to learn from a PoC study?

R**VS** Proof of Concept studies provide the following:

- Evidence of how R**VS** can be integrated into your development environment
- Evidence of how R**VS** can generate results on your system
- An R**VS** report for a part of your system
- A PoC report
- Early identification of any risks to the integration

PoC report contents

- Executive Summary – describes the work carried out, when it was conducted, and key outcomes
- Customer Needs – establishes the key needs that you hoped to be addressed by the study
- Technical description of your system – detailed description of the software and hardware you are using
- Activities undertaken – describes the activities we carried out during the study, objectives and achievements
- Results – lists and describes results achieved from R**VS** analysis of the agreed subset of your system
- Conclusion – an overview of the study and recommended next steps
- Appendix – technical details of the integration that was engineered

Next steps

If you want us to conduct a PoC study with you or want to learn more, please contact us at info@rapitasystems.com.

We can provide example reports demonstrating the kind of results you can expect to achieve during a PoC study at your request.

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About Rapita

Rapita Systems provides on-target software verification tools and services globally to the embedded aerospace and automotive electronics industries.

Our solutions help to increase software quality, deliver evidence to meet safety and certification objectives and reduce costs.

Find out more

A range of free high-quality materials are available at:
rapitasystems.com/downloads

SUPPORTING CUSTOMERS WITH:

Tools	Services	Multicore verification
Rapita **Verification Suite**:	V&V Services	CAST-32A Compliance
Rapi**Test**	Integration Services	Multicore Timing Solution
Rapi**Cover**	Qualification	
Rapi**Time**	SW/HW Engineering	
Rapi**Task**	Compiler Verification	

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