

We all have different ways to do things.

And that's OK.

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More than 2 decades ago, Red Hat had a vision for developing better software. Since then, we've worked with an ecosystem of IT leaders, open source advocates, developers, and partners to create the perfect foundation for the future of IT.

Creativity, inventiveness, and collaboration are all part of the way we do business.

Our work centres around four values: courage and freedom, balanced by commitment and accountability. You can see these values in how we communicate.

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Red Hat is a company that provides and supports OpenSource products to the enterprise community.

Red Hat's professional services support the implementation and creation of solutions from these products

Red Hat consultants can take a variety of roles during customer engagements, and as such need to be able to adapt to different ways of working.



Whilst Red Hat consultants will typically recommend approaches and methods, the way of working developed for the engagement will be tailored to meet the requirements and expectations of the customer, taking on board local customs and practices.

The result is a variety of differing ways of working.



The size and type of project can vary greatly between customers.

Red Hat's product portfolio covers a variety of different technology domains, requiring a variety of practices focused at solving the challenges and opportunities of those domains.

Professional services engagements ultimately are attempting to develop a customer's IT maturity around a particular technology, and as such the entry and exit points of the engagement will be specific for each customer.

BUILDING RE						
Connecting customers with	new capabilities and	technologies				
Red Hat Consulting support relationships and long term		ng				
Discovery sessions and	Discovery sessions and scoping					
Proof of Concepts						
Pilots						
Transformation & Migra	tion					
¹ g ^{ay} Scale-out ² weeks		6 months				
1 week	1 month		12 months & beyond			
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The diversity of approach is further complicated by the variability of engagement length, and the change in priorities throughout the engagement life-cycle.

The initial focus on establishing the value to the customer, which transitions to demonstrating technical capability and appropriateness, before building out a solution and moving towards business as usual with the solution embedded within the customer's business processes.

Engagement way of working are:

- Tailored for each customer
- Varied across technology domain and scope of technology transformation



Yet despite this variation, there are key fundamentals within every project that remain consistent.



SEMAT Essence of Software Engineering has been investigated for its appropriateness on professional services engagements.

The EMEA Architect team have been using Essence to support engagement planning and tracking, and as a method of documenting and indexing established approaches, best practices, and techniques.

Essence has been used to provide a framework to drive consistency and standardisation across ways of working without shackling engagements to a single 'one-size-fits-all' method.



The Alpha state cards have proved particularly useful in project planning, providing consistent language and measurable objectives with which to access the current state, or articulate next steps and goals.



Here we have an excerpt from a workshop planning document, the alpha cards have been used to document the current state and desired state, with notes added to describe the activities and techniques being recommended to support the state change.

	ERS' DASI			
By determining a	project's Alpha State	s, we can:		
Better unders	tand how to progres	s the project		
Objectively measure the current progress				
 Identify the pr 	actices and activities	s needed that wil	l help	
Red Hat experime	ented with tools to tra	ick and present p	project	
Alpha states		SEMAT Dashboa		ENTATION TOTAL PROJECTS: 3
	Opportunity Stakeholders	Status for Clearstream (Che Requirements Software Systems	eckpoint 6) ^{Work}	Team Ways Of Working
	Opportunity Stakeholders Viblo constraints 4 datis waterit constraints • answare constraints	Acceptable Software Macceptable Usable Based and a software Usable Based and a software Usable Based and a software Usable Based and and and and and and and and and an	Under Control Under Control Under Kach kang	Team Adjourned University of U
	Unchanged Unchanged	Junchanged Unchanged	Unchanged Un	changed Unchanged
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It has also been recognised that Essence can be used to provide high level project governance. To support this we created a proof-of-concept website to record and report the current alpha states of engagement projects.

When target states are set, it is possible to quickly identify which areas need priority or focus.

The alpha state history of each project is also recorded, so it is possible to review the changes over time.

Projects can be compared and reviewed in an objective manner when represented through alpha states.



The Essence is being used to provide a framework to collate and index established approaches: techniques, activities, practices and methods.

Documented approaches can be linked to progressing alphas, or specific state transitions.

The approach enables consultants to find suitable techniques, activities, or practices when seeking to achieve goals expressed in terms of the Essence.

COMMO	ON FRAME	VORK		
A common moth	ed etwictime to orticulat		TECHNIQUE : POC Scoping	TECHNIQUE : Reference Architectures and POC Specifications
			TECHNIQUE : Defining POO Scenario (type 1, 2, 3)	TECHNIQUE : Power Interest Grid
		ACTIVITY : Explore Possibilities	TECHNIQUE : Nine Block Modelling	TECHNIQUE : Contacts Roles and Responsibilities
	/	Stakeholders	TECHNIQUE : Customer Discovery	TECHNIQUE : Maturity Modelling TECHNIQUE : Writing a SOW
METHOD : Productis) POC	PRACTICE : Proof-of-	ACTIVITY : Requirements	TECHNIQUE: Agile Specification	TECHNIQUE : Proposal Document
	Concept, Presales	ACTIVITY : Shape the System	TECHNIQUE : System Requirement Specification	TECHNIQUE :Kickoff Meeting
	PRACTICE : Proof-of-Concept	ACTIVITY : Implement the System	TECHNIQUE : UML Design	TECHNIQUE : Engagement Journals
	PRACTICE : POC Follow-up	ACTIVITY :Track Progress	\leq	TECHNIQUE : CloudForms Custom er Defined
		ACTIVITY : Coordinate Activity ACTIVITY : Signoff	TECHNIQUE : Functional SignOff Sheet	Use Cases TECHNIQUE : CloudForms RH Use Case
		(Stakeholder Satisfaction) (Test the System)	TECHNIQUE : System Demo and Run Through	Implementation TECHNIQUE : CloudForms Cativalk Demo

- A map of available approaches has been created the Red Hat Architectural Framework.
- The Red Hat Architectural Framework (RHAF) is a way of monitoring and running projects, as well as the means to reuse best practice for customer projects, not just in Consulting.

There are two main uses for RHAF:

- To navigate through a project, to monitor progress and plan and execute phases of the project.
- To provide a framework to develop and then use reuseable method components.

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• Re • Ide	view process s	cesses analysed teps and identif vements for eac improvement	y Alpha States			
Requested I Ready S Performing S Evaluated S	Opportunity Stakeholders dentified	Requirements Software	Team The demonstration of deliver specific caps' proposal to address a - Engaged with stat decisions and det - Engaged with tech technical fit for pur - A clear understan - A clear understan - A clear understan - Costed, solution ha	Work ad Stand & Ur Concluded Closed	Wow Requested Competencies Commercial insight Anayat Product constraints Architett Technical insight Solution Environment Product constants	The custome its size is und secured invest the POC are Essential Qualities The opportunit and services. Key proposed estimate subor solution depen or poC environm constraints, ac
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The Essence provides a useful tool in analysing existing methods and developing more rounded practices or methods.

This type of analysis is useful in finding the holes in existing processes; reworking a process to support a progressive state-based model that is easier to track and apply.

DEVELOPING FURTHER

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There is more we can do - we are seeing value in using Essence, but its use is somewhat limited and experimental

It has shown promise in planning, analysis, process improvement and governance, but needs to be more widely adopted. Writing our own practices is difficult, and there are few examples of 3rd practices to draw upon.

What would help most?

3rd party practices, written using Essence

- Easier route to practical application of Essence
- Lack of consistent documentation and/or application of common practices & methods, for example Scrum, or