



G-Cloud 15 Service Definition

**Accenture Green Software Development
Lifecycle Service**

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accenture

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1.0 Scope of our services

Accenture's Green software development lifecycle (SDLC) service enables software development teams to understand their current SDLC sustainability maturity and enables easy identification of targeted recommendations to improve this across four core dimensions: technology, process, metrics and team. The scope of our service covers the below:

Green SDLC Awareness

Improve Green SDLC awareness within the project team by engaging developers on sustainable software best practices.

- Interviews to assess current awareness levels
- Trainer led Workshops to improve team understanding
- Mock SDLC scenarios to simulate decision making

Green Maturity Assessment

By leveraging Accenture's green SDLC tooling we work with software development teams to assess their current green SDLC maturity and quickly gauge an overall sustainability rating for a software project across the four dimensions.

- Interviews and tooling execution to gauge team's green quotient
- Maturity assessment and reporting across the 4 dimensions and questions
- Key recommendation identification and tailoring to project team

Green Advisory and Strategy Roadmap

On completion of the assessment phase the team will support the creation of a Green Software Engineering Strategy & Roadmap, considering both impact and influence.

- Recommendation shortlist based on impact and influence
- Roadmap and strategic execution plan creation
- Board presentation

2.0 Our Approach

Our approach leverages a team of sustainability specialists who will guide your project teams in assessing and ultimately creating green software engineering strategy. Accenture's myDiagnostic PGQ tool is used as an accelerator for this and forms part of our 4-stage process.

Stage 1: Assess the awareness level of the project teams through interviews, training workshops and case study simulations both enabling the team to gauge existing levels of understanding and also to begin embedding new concepts within the team.

Stage 2: Perform a targeted review of existing decision making and delivery processes by leveraging a set of questions that span the below four areas:

- Technology GQ: How Green are the Technology Components? Energy consumption of Software Development, Networking, Storage, and AI / ML models
- Process GQ: How Green are the Processes followed in Software Development? Energy consumption of the Physical workspace, Cloud and Deployment environments
- Metrics GQ: How Green is Operational performance? Energy implications of Software Development, Servers, and IT devices
- Team GQ: How Green are the Team members' actions and activities? Energy consumption of team members' Commute, Collaboration; Awareness within the team

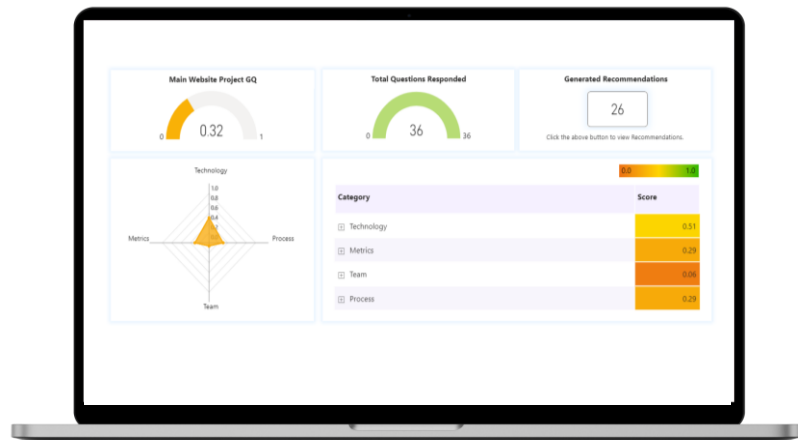
Using these questions to drive a maturity score that can be reviewed at different levels of granularity, from project all the way down to specific questions. Through this a set of recommendations can be identified and tailored to the specific project team and delivery context.

Stage 3: Once recommendations have been identified we work with the team to identify which of these would have the largest impact and the team's level of influence in making them happen. This ensures that items that the team cannot influence are not prioritized and targets those that drive sustainability value.

Stage 4: Lastly once we have a clear view on which initiatives would be worthwhile to the team, we will work with them to define an executable roadmap that ensures uptake and delivery of the recommendations.

3.0 Assets and Tools

Accenture's Project Green Quotient (PGQ) tool is a green software assessment capability housed within our cloud hosted myDiagnostic platform. It helps us quickly discover opportunities for material reduction in emissions from your software systems and to quickly gauge an overall sustainability rating for a software project across our 4 key dimensions.



PGQ can provide system generated recommendations and advisory that enables the project teams to deep-dive into any hot spots and leverage a set of references & action items to better optimize their team for sustainability.

Illustrative

TECHNOLOGY GQ

Sample Recommendations

- Instead of having fewer high-end virtual machines (running on average at low capacity) to serve your application load, choose low-end virtual machine configurations and enable autoscaling to manage high loads/traffic
- Offer the user the choice of a Dark Mode (primary background colors as Black and Grey)

PROCESS GQ

Sample Recommendations

- Leverage data center/cloud management tools to automate startup and shutdown timings of your test servers, based upon active test timings
- Turn off all devices that are not in use before leaving work (laptop, desktop, printer)

METRICS GQ

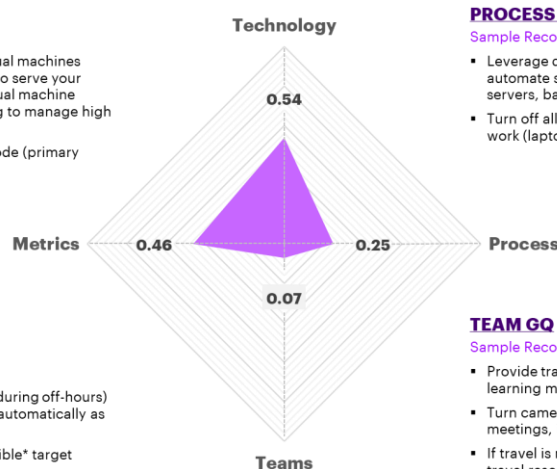
Sample Recommendations

- Turn off the servers when not in use (during off-hours) (this can be predicted and turned off automatically as well)
- Aim for an "acceptable" and "responsible" target accuracy for your ML model

TEAM GQ

Sample Recommendations

- Provide training resources to your team members for learning more about software sustainability
- Turn camera/screen-sharing off during Teams/Zoom meetings, if not essential
- If travel is necessary, encourage employees to pool travel resources or use low-carbon travel alternatives



Average GQ score across each dimension

By creating a standard set of questions, scoring methodology and set of recommendations our tool can support across projects irrespective of their technology and purpose. It also provides the flexibility of assessing multiple projects and business units whilst customizing the scope of questions to ensure that only those applicable are captured.

4.0 Pricing

Please refer to the associated pricing document/ rate card relevant for this service.

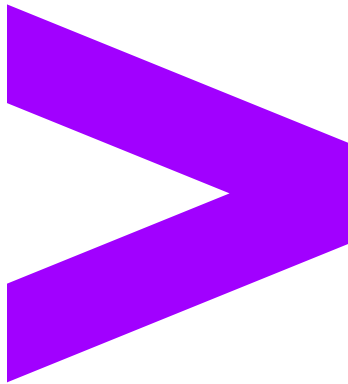
5.0 **Contacts**

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6.0 About Accenture

Accenture is a leading global professional services company that helps the world's leading businesses, governments and other organisations build their digital core, optimise their operations, accelerate revenue growth and enhance citizen services—creating tangible value at speed and scale. We are a talent- and innovation-led company with approximately 799,420 people serving clients in more than 120 countries. Technology is at the core of change today, and we are one of the world's leaders in helping drive that change, with strong ecosystem relationships. We combine our strength in technology and leadership in cloud, data and AI with unmatched industry experience, functional expertise and global delivery capability. We are uniquely able to deliver tangible outcomes because of our broad range of services, solutions and assets across Strategy & Consulting, Technology, Operations, Industry X and Song. These capabilities, together with our culture of shared success and commitment to creating 360° value, enable us to help our clients reinvent and build trusted, lasting relationships. We measure our success by the 360° value we create for our clients, each other, our shareholders, partners and communities



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