Introduction

 Solution Evaluation includes the processes to validate a full solution or a segment of a solution that is about to be or has already been implemented.
 Evaluation determines how well a solution meets the business needs expressed by stakeholders, including delivering value to the customer.



- The Solution Evaluation processes are as follows:
- **1. Evaluate Solution Performance**—The process of evaluating a solution to determine whether the implemented solution or solution component is delivering the business value as intended.
- **2. Determine Solution Evaluation Approach**—The process of determining which aspects of the organization and/or solution will be evaluated, how performance will be measured, when performance will be measured, and by whom.
- **3. Evaluate Acceptance Results and Address Defects**—The process of deciding what to do with the results from a comparison of the defined acceptance criteria against the solution.

Introduction

4. Obtain Solution Acceptance for Release—The process of facilitating a decision on whether to release a partial or full solution into production and eventually to an operational team, as well as transitioning knowledge and existing information about the product, its risks, known issues, and any workarounds that may have arisen in response to those issues.

In the Solution Evaluation knowledge area, there are 4 processes. 1 process in the **Defining and Aligning** process group, 1 process in the **Planning** process group, 1 process in the **Executing** process group, and 1 process in the **Closing** process group.

Solution Evaluation Overview

9.1 Evaluate Solution Performance

- .1 Inputs
- .1 Business case
- .2 Business goals and objectives
- .3 Evaluated acceptance results
- .4 Performance data
- .5 Solution evaluation approach
- .2 Tools & Techniques
- .1 Cost-benefit analysis
- .2 Elicitation techniques
- .3 Product portfolio matrix
- .4 Prioritization schemes
- .5 Root cause and opportunity analysis
- .3 Outputs
- .1 Assessment of business value

9.2 Determine Solution Evaluation Approach

- .1 Inputs
- .1 Metrics and KPIs
- .2 Product scope
- .3 Situation statement
- .2 Tools & Techniques
- .1 Elicitation techniques
- .2 Group decision-making techniques
- .3 Prioritization schemes
- .4 Retrospectives and lessons learned
- .3 Outputs
- .1 Solution evaluation approach

9.4 Obtain Solution Acceptance for Release

- .1 Inputs
- .1 Approved requirements
- .2 Evaluated acceptance results
- .3 Product risk analysis
- .4 Readiness assessment
- .5 Stakeholder engagement and communication approach
- .6 Transition plan
- .2 Tools & Techniques
- .1 Facilitated workshops
- .2 Group decision-making techniques
- .3 Outputs
- .1 Release decision

9.3 Evaluate Acceptance Results and Address Defects

- .1 Inputs
- .1 Acceptance criteria
- .2 Actual acceptance results
- .2 Tools & Techniques
- .1 Prioritization schemes
- .2 Root cause analysis
- .3 Traceability matrix
- .4 Variance analysis
- .3 Outputs
- .1 Evaluated acceptance results

Introduction

 Solution Evaluation activities are performed to assess whether or not a solution has achieved the desired business results. Solution evaluation practices apply to anything that needs to be evaluated, from a discrete usage scenario to a broad business outcome.



- Solution Evaluation consists of the work done to analyze measurements obtained for the solution by comparing the actual results of acceptance testing to the expected or desired values, as defined by the acceptance criteria.
- Analyzing the results from surveys, focus groups, or the results of exploratory testing of functionality are examples of qualitative or coarsely quantitative evaluation activities. Other evaluation activities involve obtaining more precise quantitative measurements, such as directly looking at data from a solution.
- Nonfunctional characteristics of a solution are often evaluated with measurements as well. For example, performance standards in service-level agreements can be measured for actual compliance. Comparing estimated and actual costs and benefits may also be part of Solution Evaluation.

Introduction

- Evaluation activities may occur:
- 1. At any point when a go/no-go or release decision needs to be made for a solution or a substantive segment of it;
- 2. During a short-term period after a solution or segment is put into operation, such as after a warranty period; or
- 3. Well after a solution is put into operation, to obtain a long-term perspective about whether the business goals and objectives for the solution were met and whether the value expected continues to be delivered



 Preparation for evaluating a solution includes defining and confirming the expected business value, identifying and defining what kind of performance data will be used to evaluate whether value has been achieved, confirming that performance data will actually be available, and obtaining baseline or control data when necessary.

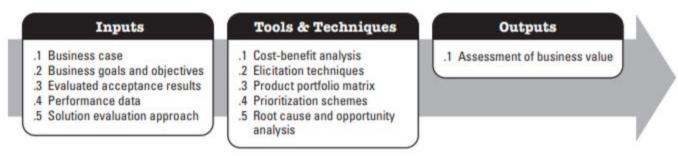
Introduction

- Complicating factors for evaluating a solution are as follows:
- 1. Some of the benefits and value of the solution may seem to be intangible, and therefore, not possible to measure. For intangible benefits, it may be necessary to define measurements that provide indirect evidence that the benefits have been achieved.



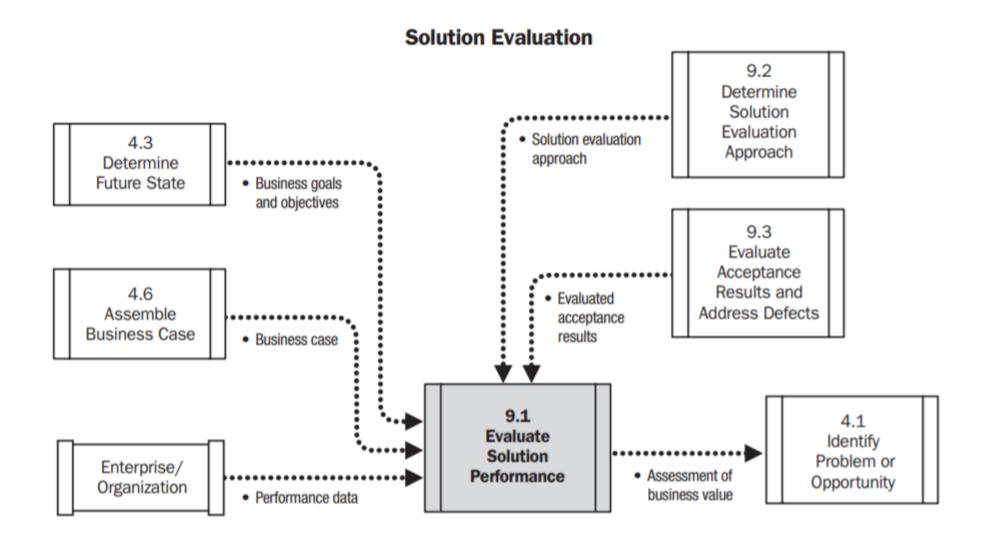
- 2. Some of the information needed to evaluate the solution may not be needed for the solution itself. Obtaining and using such data may add to the costs of developing the solution.
- 3. Some aspects of a solution that reflect the benefits and value may not be measurable until well after a solution is released. In these situations, the operational business area responsible for the product or perhaps an enterprise organizational area may take responsibility for identifying and measuring leading indicators
- These factors are yet other reasons for thinking about Solution Evaluation as part of initial product development efforts.

- Definition: Evaluate Solution Performance is the process of evaluating a solution to determine whether the implemented solution or solution component is delivering the business value as intended
- key benefit: The key benefit of this process is that the analysis provides tangible data to determine whether the solution that the business has invested in is achieving the expected business results and serves as an input to decisions about future initiatives.
- Process Group: Defining and Aligning process group
- The inputs, tools and techniques, and outputs for this process are shown in Figure below.





Data Flow Diagram



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Evaluate Solution Performance

 Evaluating solution performance involves determining whether a solution or solution component that has been put into operation is delivering the desired business value. The actual business value of a solution is measured in terms of the business goals or objectives. Business analysis also assesses the underlying reasons behind the results obtained.



- Evaluation of solution performance typically occurs after a solution has been released. Therefore, it is more likely that the evaluation of solution performance will occur during portfolio or program activities rather than project activities.
- The extent to which business value has been achieved and the reasons for the achievement are significant factors to consider when making product decisions within a portfolio or program.
- Data to evaluate the business value are often measured by and obtained from the business area that takes ownership of the solution or by instrumentation that has been built into the product. Business analysis techniques are used to analyze variations between desired and actual results as part of assessing the business value of the solution.

- The relevant business goals and objectives, evaluated acceptance results from a previous release, performance data, and baseline data, when available, are analyzed to determine whether value has been delivered, as well as the reasons for better-than-expected results or the root causes of any problems.
- Among the typical reasons for missed business value are:
- Technical causes,
- Business practices or constraints,
- Resistance to the product or the way it is intended to be used, and
- Opportunistic workarounds devised by those who use the product to get around real or perceived solution limitations.
- The assessment of the performance of a product becomes input into recommendations for improving the long-term performance of the solutions and for portfolio and program management decisions about further enhancements to the product, decisions about new products, and decisions to replace or discontinue products.



Evaluate Solution Performance

Inputs

- 1. The business case describes pertinent information to determine whether the initiative is worth the required investment. It is an authoritative source where expected benefits have been stated.
- **2. Business goals and objectives** specify stated targets that the business is seeking to achieve. They provide the context for evaluating solution performance, because they are a measurable description of the expected business value.



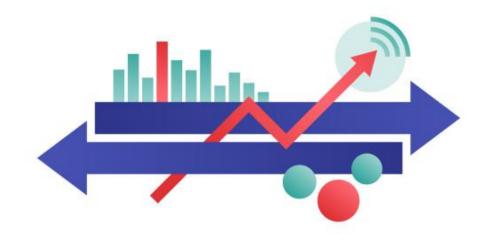
- Examples of business objectives include increased throughput in the manufacture of a product by x%, reduction in costs by y%, and increased sales volume by \$z.
- Many products support business goals and objectives that can be associated with one or more **key performance indicators (KPIs)**. For organizations that already define and measure KPIs, it may sometimes be possible to use one or more of these KPIs to evaluate the solution, taking advantage of existing measurement capabilities.

Evaluate Solution Performance

3. Evaluated acceptance results are comparisons between the acceptance criteria and the actual results, and the root cause for variances between them. The evaluated acceptance results from when the solution was released describe the state of the product, and specifically any proficiencies or deficiencies it may have, which might have altered the expected business value.



- A product that exceeds expectations can provide a basis for future opportunities. A product that does not meet expectations may have defects, which will necessitate analysis of the cost to address the defects and the business impact of addressing them or accepting them.
- 4. Performance data are a quantified output of a product. Examples of outputs that might be measured include throughput in the manufacture of a product, volume of some output generated by the product, reduction in costs, productivity achieved in using a service, number of users adopting a solution, amount of revenue generated, sales volume, number of individuals reached in a marketing campaign, and levels of customer satisfaction.



Evaluate Solution Performance

- Performance data are used to determine the actual business value of a product by assessing the performance data before and after a release. Any performance data from a prior version of a product or manual process **represent a baseline**. For example, if business value is measured in terms of increased sales volume, then the quantified business value is the difference in sales volume before (the baseline) and after release of the solution
- Performance data are generally measured by and obtained from the business area that takes ownership of the solution or by instrumentation built into the solution.
 Performance data also can be measured using capabilities externally available to the solution, such as the results from surveys or focus groups conducted after a solution has been released



5. Solution evaluation approach. The solution evaluation approach identifies which types of metrics will be used to evaluate whether the expected business value has been achieved. It explains how solution performance will be evaluated. Because solutions can be evaluated long after their release, the original solution evaluation approach may need to be updated over time based on the current state.

Evaluate Solution Performance

Tools and Techniques

1. **Cost-benefit analysis** is a financial analysis tool used to determine the benefits provided by a project or solution against its costs. Considering the results of an actual versus expected cost-benefit analysis is one way to assess the business value of the solution.



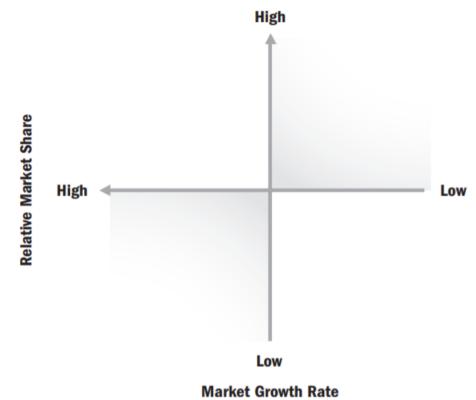
- Conducting a cost-benefit analysis can help determine whether recommendations made as part of the evaluation of solution performance are likely to be cost-effective.
- 2. Elicitation techniques are used to draw out information from sources. Facilitated workshops, focus groups, interviews, and observation are among the elicitation techniques often used to uncover root causes for identifying the differences between the expected and actual business value of a solution and making recommendations to address those variances.



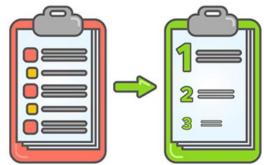
- **a. Facilitated workshops** may be conducted with decision makers to collaboratively work together to identify the root cause and any variances.
- **b. Focus groups**. Provide an opportunity to obtain feedback directly from customers and/or end users. Focus groups can be used to learn about which deficiencies in business value are important or of concern to stakeholders
- **c. Interviews**. May be conducted with individual stakeholders and users to gain insights about root causes in situations where expected and actual business value differs widely. The privacy and confidentiality of an individual interview may reveal considerations that might not otherwise be expressed in a facilitated workshop or focus group.
- **d. Observation**. For some products, direct observation of users actually performing their jobs or tasks may uncover workarounds that they use to compensate for product gaps. These workarounds may have had unintended consequences leading to missed business value.



- **3. A product portfolio matrix**, also known as a **growth-share matrix**, is a market analysis quadrant diagram used by some organizations to qualitatively analyze their products or product lines. One axis reflects market growth (or demand for a product) from low to high, while the other reflects the market share of the organization from low to high.
 - The matrix provides a quick visual way to evaluate which products are meeting or exceeding performance expectations in the marketplace, and as a result, can contribute to evaluating the performance of a product.
- Figure next is an example of a product portfolio matrix. In this figure, assuming that the costs to produce, market, and distribute the product are not a significant factor, the products that provide the most significant benefits to the organization would be found in the upper left quadrant, because these are the products where the organization has a high market share in a market with a high growth rate



- Those in the upper right quadrant are regarded as having good potential because, although they have a low market share, they are in a market that is continuing to grow. Those in the lower left quadrant, with a high market share in a low growth market, are considered a dependable income stream.
- **4. Prioritization schemes** are different methods used to prioritize requirements, features, or other product information. For the purposes of evaluating solution performance, prioritization schemes can be used to rank the value of the benefits obtained from the solution as well as the severity of any challenges it creates.



- **5. Root cause analysis** is used to determine the basic underlying reason that causes a variance, defect, or risk. Opportunity analysis is used to study the major facets of a potential opportunity to determine the possible changes in products offered to enable its achievement.
- When used to evaluate solution performance, root cause and opportunity analysis can help uncover the reasons why the actual business value either did not meet or possibly exceeded expectations and where there may be further product improvement opportunities. The results of root cause and opportunity analysis can be used when making decisions about new products and whether to enhance, retire, or discontinue existing products.

Evaluate Solution Performance

Outputs

- 1. The assessment of business value is the result from comparing expected business value from a solution against the actual value that has been realized. If the desired business value was not achieved, the assessment includes the reasons why.
- The assessment is used to make decisions about whether to develop a new product or to enhance, retire, or discontinue an existing product.
- The work done to implement any recommendations will need to be prioritized as part of the ongoing planning activities the organization performs for portfolio or program management.



Evaluate Solution Performance

Tailoring Considerations

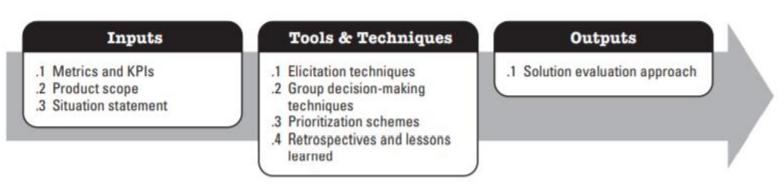
Aspects to Be Tailored	Typical Adaptive Considerations	Typical Predictive Considerations
Name	Evaluate Solution Performance	
Approach	After a solution is launched, performance data are used to compare business value to what was expected. Subjective and objective evidence is collected. Root causes are identified for deviations from what was expected. Recommendations may be made to address reducing the deviations. Root causes become input into decisions to enhance, maintain, replace, or discontinue the product.	
Deliverables	Assessment results can be formally documented or not.	

Collaboration Point

 Functional managers may provide insights on how the product is performing that might not be obvious solely by looking at metrics, and **DevOps** may provide insights on how product performance is trending during the warranty period. **Subject matter experts** (SMEs) may be responsible for conducting the evaluation or may help surface the reasons behind the results obtained.

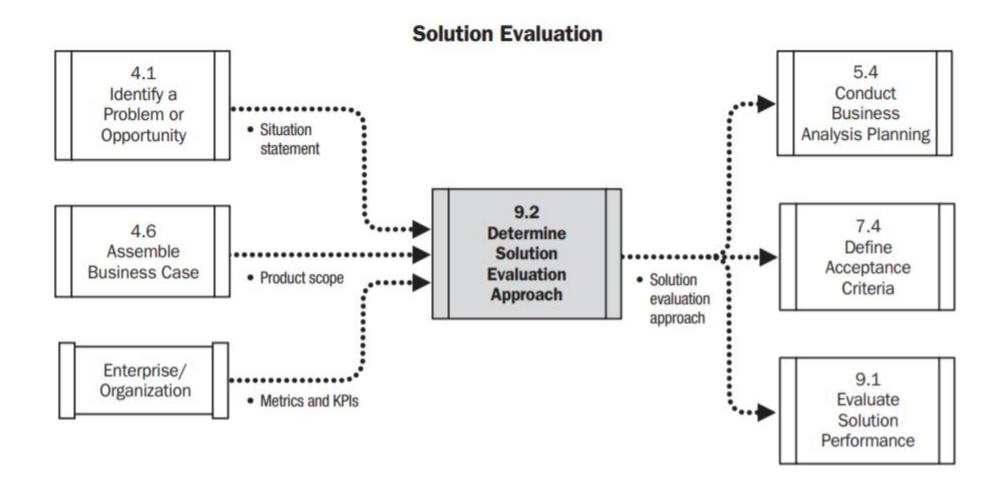
Determine Solution Evaluation Approach

- Definition: Determine Solution Evaluation Approach is the process of determining which aspects of the organization and/or solution will be evaluated, how performance will be measured, when performance will be measured, and by whom.
- key benefit: The key benefit of this process is that performance indicators and metrics are selected or defined so they can be collected, reported on, and evaluated to support the continual improvement of the organization and/or product
- Process Group: Planning process group
- The inputs, tools and techniques, and outputs for this process are shown in Figure below.





Data Flow Diagram



BA Guru 21

Determine Solution Evaluation Approach

- Determining an approach for Solution Evaluation involves conducting research, discussions, and analysis to identify how and when to evaluate a product.
 Determining the solution evaluation approach should include:
- 1. Planning when and how often solution evaluation activities should be performed. Solution evaluation may occur during solution development for some components of a solution, just before a release, soon after a release, or long after a release;



- 2. Planning which evaluation techniques will be used. Not all techniques need to be decided before analysis begins, but by thinking ahead, it is more likely that business analysts will be prepared to use a variety of techniques;
- 3. Planning how the evaluation results will be analyzed and reported;
- **4.** Planning how the progress of solution evaluation and its outputs will be communicated to stakeholders and other interested parties, including what level of formality is appropriate; and
- **5. Planning which metrics will be used** to evaluate performance and how they tie to the business goals and objectives.

Determine Solution Evaluation Approach

 A metric is a set of quantifiable measures used to evaluate a solution or business. When performing solution evaluation, a metric defines how solution performance can be quantified. Many metrics can be used to compare the tangible properties of the solution, such as throughput, productivity, or efficiency.



- There are two common types of metrics defined by the solution evaluation approach:
- 1. Metrics that will be used to evaluate the solution or its components for acceptance during or shortly after development. Acceptance criteria are defined to set acceptable ranges on these metrics
- 2. Metrics likely to be used later to determine if the business value was delivered. Because solution performance is not evaluated until after a solution is released, the choice of metrics or how they are measured might change over time.
- The solution evaluation approach should be defined as early as possible in the product development life cycle because some of the metrics identified in it may require capturing additional information, above and beyond what the product itself requires

Determine Solution Evaluation Approach

Inputs

1. Metrics and KPI's. A metric is a set of quantifiable measures used to evaluate a solution or business. In solution evaluation, a metric defines how solution performance can be quantified. Many types of metrics could be used to evaluate a solution. Business objectives are a type of metric that describe the desired business value of a product.



- Key performance indicators (KPIs) are a related type of metric, usually defined by an organization's executives, used to evaluate an organization's progress toward meeting its objectives or goals. Other, more granular metrics that also trace back to business objectives can be used to evaluate the interim success of a solution during or after development.
- Defining a solution evaluation approach involves choosing which metrics to use to evaluate a solution under development as part of its acceptance criteria or a previously released solution as part of its performance. When choosing, consideration can be given to metrics that are already available within the organization.

Determine Solution Evaluation Approach

- **2. Product scope** is defined as the features and functions that characterize a solution. The product scope and the business goals and objectives on which a solution is based provide suggestions as to what types of information should be collected and measured for evaluation purposes.
- **3. A situation statement** describes the problem or opportunity and its effect on the organization. The wording of the situation statement may suggest ways to measure whether or not the problem or opportunity has been addressed. The situation statement might also be used to determine how, when, and how frequently a solution should be evaluated.



Determine Solution Evaluation Approach

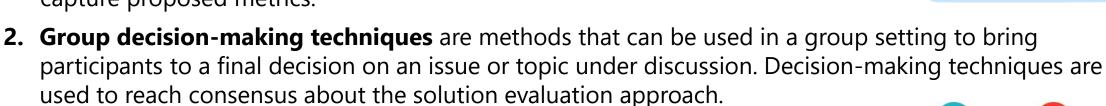
Tools and Techniques

- 1. Elicitation techniques are used to draw information from sources. Elicitation techniques can be used to identify existing metrics or potential new metrics for determining solution acceptance or evaluating whether business value has been delivered. Elicitation techniques are also helpful to identify ideas about how a solution can be evaluated.
- A few common elicitation techniques that can support determining the solution evaluation approach are document analysis, facilitated workshops, and interviews:
- **a. Document analysis**. An elicitation technique used to analyze existing documentation to identify relevant product information.
- A team may be able to gain ideas for likely metrics from documentation that inventories the kind of information that is currently collected or that will be available once the solution is in place. The team may also be able to reuse all or part of a documented solution evaluation approach.



Determine Solution Evaluation Approach

- **b. Facilitated workshop**. A structured meeting led by a skilled, neutral facilitator and a carefully selected group of stakeholders to collaborate and work toward a stated objective. The structure of a facilitated workshop promotes an efficient and focused meeting for proposing metrics.
- **c. Interviews**. Used to elicit information about the solution evaluation approach. They can be scheduled with various stakeholders who possess key information for determining the approach.
- When necessary, individual interviews can provide each stakeholder with an opportunity to speak candidly about the ability of the organization to capture proposed metrics.



value of information against costs to obtain it, which of the proposed metrics to use, and the frequency of collecting metrics.

Determine Solution Evaluation Approach

3. Prioritization schemes. When developing the solution evaluation approach, the interest in obtaining information needs to be balanced against the cost of obtaining and communicating that information. The balance is achieved through decision making and may require prioritizing among the proposed metrics.



4. Retrospectives and lessons learned leverage past experiences to plan for the future. As part of devising a solution evaluation approach, retrospectives and lessons learned can be used to learn about the ease of collecting and analyzing different types of metrics and the effectiveness of different evaluation techniques.



Determine Solution Evaluation Approach

Outputs

1. The solution evaluation approach describes when and how a solution will be evaluated, the types of metrics that will support evaluation, the feasibility of collecting and communicating the actual performance data for these metrics, and who is responsible for conducting the evaluation and communicating results.



Determine Solution Evaluation Approach

Tailoring Considerations

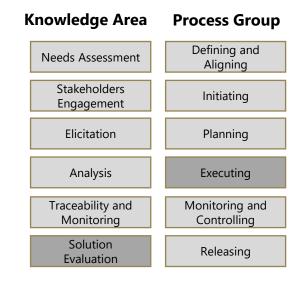
Aspects to Be Tailored	Typical Adaptive Considerations	Typical Predictive Considerations
Name	Not a formally named process	Determine Solution Evaluation Approach
Approach	Considered part of initial planning and taken into account when defining acceptance criteria, creating a definition of done, and during coordination with quality assurance. The decisions may be documented informally or discussed among the team.	The approach for Solution Evaluation is defined as part of planning and prior to defining acceptance criteria.
Deliverables	Not a separate deliverable.	The solution evaluation approach becomes a component of the business analysis plan.

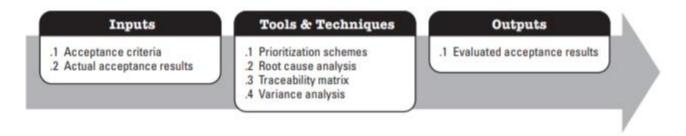
Collaboration Point

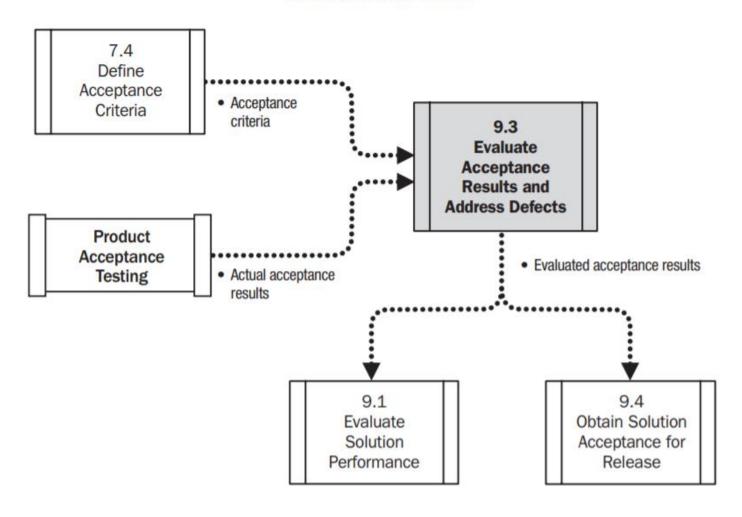
o **Risk compliance and legal areas** may provide requirements as to what needs to be measured, for how long, and for what length of time performance data need to be retained. **Project sponsors** also need to be included because they hold different insights as funders and may have different priorities in terms of what they are willing to spend for Solution Evaluation. **Operational leads** may provide ideas for metrics and assess the ability of their operational areas to measure them and provide insights into the costs associated with collecting them.

Evaluate Acceptance Results and Address Defects

- Definition: Evaluate Acceptance Results and Address Defects is the process of deciding what to do with the results from a comparison of the defined acceptance criteria against the solution
- key benefit: The key benefit of this process is that it allows for informed decision making about whether to release all or part of a solution and whether to undertake changes, fixes, or enhancements to the product.
- Process Group: Executing process group
- The inputs, tools and techniques, and outputs for this process are shown in Figure below.







BA Guru 32

Evaluate Acceptance Results and Address Defects

- This process compares the acceptance criteria and the actual results of acceptance testing to provide recommendations on how to deal with situations where aspects of a solution do not meet the acceptance criteria specified for it.
- It focuses on the actual results from comparing acceptance testing to their acceptance criteria, rather than on the tests themselves. This distinction supports common practice in the industry, where organizations distinguish between roles that conduct business analysis and roles that perform testing.
- The pass/fail aspect of comparing actual results from acceptance testing to testing criteria is typically a task within the testing discipline. **Business analysis** is then needed to consider the magnitude and severity of the defects, to determine their root cause, to identify risks associated with them, and to identify and recommend ways to address them.





Evaluate Acceptance Results and Address Defects

- The test results that are part of evaluating acceptance criteria and addressing defects may come from:
- Exploratory tests and user acceptance tests,
- Day-in-the-life (DITL) tests,
- Preproduction or simulated production testing,
- Tests of functionality within a scenario, and
- Tests of nonfunctional requirements
- The evaluation process includes determining the root cause of any variance or defect. Recommendations for how to address the defect can also be made and may include:
- 1. Potential workarounds to business practices or product usage that will not interfere with other product functionality or cause the product to behave in unintended ways;
- 2. Possible modifications to the product, which could require a change request;
- 3. Potential adjustments to how or which results are measured;
- 4. Identifying a need to investigate the technical causes of the defect; and
- 5. Communications to customers and users to clarify how the product is expected to be used



Evaluate Acceptance Results and Address Defects

Inputs

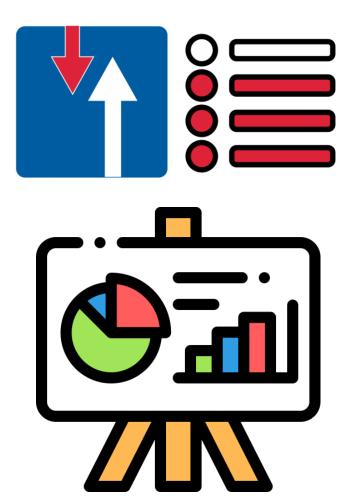
- 1. Acceptance criteria are concrete and demonstrable conditions that have to be met for the business stakeholders or customers to accept the item. They may take the form of lists of acceptance criteria for each user story in an adaptive approach or a list of higher-level acceptance criteria for a release or solution in a predictive approach. Acceptance criteria are a key input because they indicate the conditions against which the solution is being tested.
- 2. Actual acceptance results contain the pass/fail results from comparing test results against the acceptance criteria, often provided by a quality control team. In business analysis, the actual acceptance results are then analyzed to determine the reasons for any differences between the test results and acceptance criteria and to recommend how to address the defects.
- For organizations that conduct regression testing, regression test results may be valuable to analyze as well, as they may reveal situations where new or enhanced functionality impacts existing functionality



Evaluate Acceptance Results and Address Defects

Tools and Techniques

- 1. **Prioritization schemes** are different methods used to prioritize requirements, features, or any other product information. As part of addressing defects, prioritization schemes can be used to rank each defect based on its severity and how likely a user is to encounter it, as well as on the impact of not fixing the defect
- 2. Root cause analysis techniques are used to determine the reason for a variance or a defect. Root cause analysis techniques can be used to discover the reasons why actual results did not meet the acceptance criteria. These root cause reasons will also figure into decisions about whether or not to move forward to obtain solution acceptance for a release.



Evaluate Acceptance Results and Address Defects

- **3. A traceability matrix** is a grid that links product requirements from their origin to the deliverables that satisfy them. A traceability matrix can be used to establish relationships among product information, deliverables, and project work to ensure that each relates back to business objectives.
- As part of evaluating acceptance results, a traceability matrix can be used as a tool to assess the business impact of not addressing variations from acceptance criteria and defects; for example, there could be a significant business impact from not addressing defects associated with features that trace to a highpriority objective
- **4. Variance Analysis**. Variance is a quantifiable deviation, departure, or divergence from a known baseline or expected value. Variance analysis is a technique for determining the cause and degree of difference between the baseline and actual performance
- Irrespective of product life cycle, when there are significant differences between the acceptance criteria and actual results from testing, variance analysis may be applied to consider causes of the differences.



Evaluate Acceptance Results and Address Defects

Outputs

- 1. Evaluated acceptance results provide a summarized comparison between the acceptance criteria and the actual acceptance results, along with the root cause for variances or defects, the analysis of the cost to address the defect, and the business impact of addressing it or accepting it.
- Some organizations will track the evaluated acceptance results and recommendations in logs. When evaluated acceptance results are communicated, recommendations about ways to address the defect may be included.
- For organizations that make it a practice to maintain documentation about their products and projects, another type of evaluated acceptance result can be obtained by comparing approved requirements to asbuilt documentation.



Evaluate Acceptance Results and Address Defects

Tailoring Considerations

Aspects to Be Tailored	Typical Adaptive Considerations	Typical Predictive Considerations
Name	Not a formally named process; performed as part of the work to demonstrate and obtain feedback on the solution	Evaluate Acceptance Results and Address Defects
Approach	Typically covers a slice of product capabilities at a time, along with the acceptance criteria associated with those capabilities. Demonstrate what was developed during the most recent iteration, obtain feedback from decision makers, and add defects that need to be addressed to the backlog for prioritization. When conducted for a specific user story, if the demonstration does not prove conformance to the acceptance criteria, the entire story can be rejected and returned to the backlog to be reprioritized.	Performed on a segment of the product that is to be delivered as part of a release or the entire product. Use evaluated acceptance results and the acceptance criteria as a starting point to determine root cause for variances or defects. Consider the costs to address the defects and the business impacts of addressing or accepting them. Provide recommendations for how to address the defects.
Deliverables	Additions of defects to the backlog.	Documentation of evaluated acceptance results, along with any associated change requests.

Evaluate Acceptance Results and Address Defects

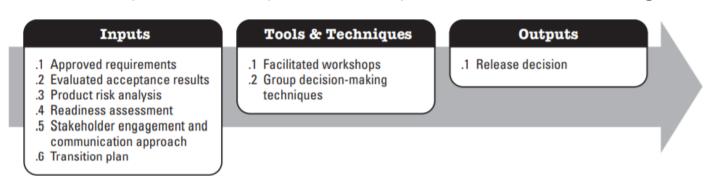
Collaboration Point

- Many roles collaborate with the business analyst when evaluating acceptance results and determining how to address identified defects. Developers, designers, quality control analysts, and subject matter experts (SMEs) from the business or operational areas may have insights on reasons for a variance between actual results and the expected results.
- Any role involved in identification, prioritization, or adjudication of change requests, such as an individual on a change control team, might take leadership for addressing defects in consultation with those responsible for business analysis



Obtain Solution Acceptance for Release

- Definition: Obtain Solution Acceptance for Release is the process of facilitating a decision on whether to release a partial or full solution into production and eventually to an operational team, as well as transitioning knowledge and existing information about the product, its risks, known issues, and any workarounds that may have arisen in response to those issues.
- key benefit: The key benefit of this process is the creation of an agreedupon break between building a solution and releasing a solution for acceptance by the stakeholders
- Process Group: Closing process group
- The inputs, tools and techniques, and outputs for this process are shown in Figure below.





Data Flow Diagram

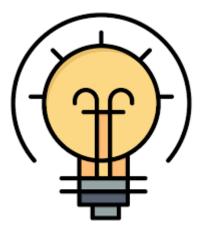
9.3 5.3 Evaluate Determine Acceptance Stakeholder Results and Engagement and Stakeholder Address Defects Communication engagement and Approach communication Evaluated approach acceptance results 5.5 Prepare for Transition to 9.4 Readiness **Future State** assessment **Obtain Solution** Enterprise/ **Acceptance for** Transition plan Organization Release Release decision 7.8 Identify and Analyze Product Product risk Risks analysis 8.3 Select and Approve Approved Requirements requirements

Solution Evaluation

BA Guru 42

Obtain Solution Acceptance for Release

- Obtaining solution acceptance for a release provides the stakeholders who are accountable for the product with an opportunity to decide whether it should be released in whole, in part, or not at all.
- For solution acceptance, the term release may refer to releasing a solution or a segment of a solution into a production environment while its development team is still responsible for it. It can also refer to releasing a solution or a segment of it to the operational area that will take responsibility for it.



- Release decisions are typically based upon:
- Acceptability of the solution, as evidenced by the evaluated acceptance results;
- 2. Confirmation that the organization is ready for the release;
- Confirmation that the transition activities to prepare for the release have been completed to the degree necessary, including the coordination of this solution release with any other releases that are happening concurrently; and
- 4. Acceptance of any remaining product risks and workarounds

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Inputs

- 1. Approved requirements are requirements that are verified, validated, and deemed an accurate representation of what the product development team should build. Approved requirements provide the baseline for comparisons made in release decisions between what was approved for the solution and what was actually implemented in the product
- 2. Evaluated acceptance results provide a summarized comparison between the acceptance criteria and the actual results, along with the root cause for variances or defects, the analysis of the cost to address the defect, and the business impact of addressing it or accepting it. For solutions developed using an adaptive life cycle, the definition of done is also part of these results.
- Evaluated acceptance results provide concrete evidence of whether or not the solution has met or exceeded expectations. Any recommendations within evaluated acceptance results for how to deal with the discrepancies may impact when and whether a solution is accepted for release.

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- **3. The product risk analysis** includes the consolidated results from identifying and analyzing product risks. The product risk analysis consists of the recommended responses to manage and control potential threats and strategies to take advantage of potential opportunities related to the product.
- This context is required when seeking solution acceptance for a release to determine the degree to which the product risks have been addressed. Product risks not addressed within the duration of the project may be transferred to operational teams to manage going forward.



- **4. A readiness assessment** is an evaluation of how well an organization is prepared for a change. It provides an evaluation of the ability of an organization to transition to the future state enabled by the solution.
- It also identifies risks to achieving readiness for the transition, and may also propose responses for how to address those risks. Consideration of whether any unaddressed readiness risks remain and whether the organization is truly ready for the release at the proposed point in time will figure into release decisions.



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5. The stakeholder engagement and communication approach summarizes all the agreements for governing how stakeholders will be engaged and communicated with across the portfolio, program, or project. The stakeholder engagement and communication approach includes information about which roles are accountable for the release decision and how the release decision will be made.



- **6. A transition plan** is based on the readiness assessment as well as the transition strategy. It covers development of all the communication, rollout, training and user documentation procedure updates, business recovery updates, and other collateral and final production tasks needed to successfully cut over and adapt to the future state.
- It provides the information needed to coordinate and ensure that the release of the solution will occur at a time when the business can accept the changes and that any interruptions caused by the transition itself are not in conflict with other in-process programs and project work



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- At a minimum, a transition plan would include a checklist of transition activities with "no later than" completion dates. When formalized, a transition plan would have a schedule developed in collaboration with and managed by those responsible for project management and operations.
- On projects using an adaptive delivery approach, rather than developing a formal transition plan, transition planning may manifest itself in setting up a reserved block of time or specific iteration to work through transition details, coordinating this time with the operational area that will own the product.
- For solutions involving software, this effort often includes time to clean up "technical debt," the tactical workarounds within the solution that could result in a product that would be difficult to maintain or enhance over time. A very important part of obtaining solution acceptance involves confirming that the transition activities have been completed.

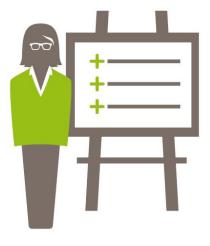




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Tools and Techniques

1. Facilitated workshops. Whenever possible, release decisions should be made during a facilitated workshop to allow all stakeholders to hear the rationale for the decisions made. The individuals who evaluated the acceptance criteria should attend and contribute to decision making. It can be helpful to provide summarized information in tabular or visual form whenever possible, to help decision makers render their decisions.



- Summarizing the evaluated acceptance results, along with the remaining product and readiness risks, incomplete transition activities, and any gaps between approved requirements and what the solution will deliver, provides decision makers with the necessary information to render a decision more quickly.
- 2. Group decision-making techniques are used in a group setting to bring participants to a final decision on an issue or topic under discussion. To make the release decision, group decision making is conducted using an agreed-upon model for reaching a decision. The decision model should be identified as part of the stakeholder engagement and communication approach.

Obtain Solution Acceptance for Release

Outputs

- 1. A release decision may permit the release or partial release of the solution, delay it, or disapprove and prevent it. A release decision often includes a signoff. The formality of the sign-off depends upon the type of project, the type of product, the project life cycle, the scale of the release, and corporate and regulatory constraints.
- Organizations with informal sign-off practices need to obtain sign-off in the manner that is acceptable to the organization.



Obtain Solution Acceptance for Release

Tailoring Considerations

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Obtain Solution Acceptance for Release

Collaboration Point

- Business analysts collaborate with several roles when obtaining solution acceptance for a release. For
 formal solution acceptance approaches, a release management organization might be responsible for
 coordinating all release related activities, including obtaining solution acceptance. In many organizations,
 someone in a project management role is typically accountable to obtain the sign-off.
- o Operational managers may confirm that all business transition considerations have been sufficiently addressed and that they are comfortable with the solution and any workarounds associated with it.
- Quality control may be consulted to confirm that all product testing concerns have been sufficiently addressed, and architects and designers may be consulted to confirm that technical product concerns have been sufficiently addressed.



Question 1

A set of quantifiable measures used to evaluate a solution or business is known as which of the following?

- a. Objective
- b. Goal
- c. Metric
- d. KPI

Answer

A metric is a set of quantifiable measures used to evaluate a solution or business. When performing solution evaluation, a metric defines how solution performance can be quantified. Many metrics can be used to compare the tangible properties of the solution, such as throughput, productivity, or efficiency.

Question 2

A technique for determining the cause and degree of difference between the baseline and actual performance is known as which of the following?

- a. Gap analysis
- b. Trend analysis
- c. Variance analysis
- d. Defect analysis

Answer

Variance Analysis. Variance is a quantifiable deviation, departure, or divergence from a known baseline or expected value. Variance analysis is a technique for determining the cause and degree of difference between the baseline and actual performance

Question 3

Which of the following documents provide a summarized comparison between the acceptance criteria and the actual acceptance results?

- a. The Assessment of Business Value
- b. A Release Decision
- c. Business Case
- d. Evaluated acceptance results

Answer

Evaluated acceptance results provide a summarized comparison between the acceptance criteria and the actual acceptance results, along with the root cause for variances or defects, the analysis of the cost to address the defect, and the business impact of addressing it or accepting it.

Question 4

Which of the following is a document that describes when and how a solution will be evaluated, the types of metrics that will support evaluation, and the feasibility of collecting and communicating the actual performance data for these metrics?

a. Solution Evaluation Approach

- b. The Assessment of Business Value
- c. A Release Decision
- d. Business Case

Answer

The solution evaluation approach describes when and how a solution will be evaluated, the types of metrics that will support evaluation, the feasibility of collecting and communicating the actual performance data for these metrics, and who is responsible for conducting the evaluation and communicating results.

Question 5

Which of the following is the process of determining which aspects of the organization and/or solution will be evaluated?

- a. Evaluate Acceptance Results and Address Defects
- b. Prepare for transition
- c. Determine Solution Evaluation Approach
- d. Evaluate Solution Performance

Answer

Determine Solution Evaluation Approach—The process of determining which aspects of the organization and/or solution will be evaluated, how performance will be measured, when performance will be measured,

Question 6

Which of the following tools and techniques provides a quick visual way to evaluate which products are meeting or exceeding performance expectations in the marketplace?

- a. Scope Model
- **b.** Product Portfolio Matrix
- c. Product Roadmap
- d. Product Scope

Answer

A product portfolio matrix provides a quick visual way to evaluate which products are meeting or exceeding performance expectations in the marketplace, and as a result, can contribute to evaluating the performance of a product.

Question 7

What is the key output of the evaluate solution performance process?

- a. The assessment of business value
- b. Evaluated acceptance results
- c. Test results
- d. The solution evaluation approach

Answer

The assessment of business value is the result from comparing expected business value from a solution against the actual value that has been realized. If the desired business value was not achieved, the assessment includes the reasons why. It is the key output of the evaluate solution performance.

Question 8

Which of the following documents may permit the release or partial release of the solution, delay it, or disapprove and prevent it?

- a. Evaluated accepted results
- b. Product scope
- c. Release decision
- d. Solution evaluation

Answer

A release decision may permit the release or partial release of the solution, delay it, or disapprove and prevent it. A release decision often includes a sign-off. The formality of the sign-off depends upon the type of project, the type of product, the project life cycle, the scale of the release, and corporate and regulatory constraints.

Question 9

Which of the following tools and techniques is known as a market analysis quadrant diagram used by some organizations to qualitatively analyze their products or product lines?

- a. Objectives and goals matrix
- b. Traceability matrix
- c. Growth share matrix
- d. Requirements matrix

Answer

A product portfolio matrix, also known as a growth-share matrix, is a market analysis quadrant diagram used by some organizations to qualitatively analyze their products or product lines. One axis reflects market growth (or demand for a product) from low to high, while the other reflects the market share of the organization from low to high.

Question 10

Evaluating the solution performance is part of which process group?

- a. Planning
- b. Executing
- c. Defining and Aligning
- d. Initiating

Answer

Evaluate Solution Performance—The process of evaluating a solution to determine whether the implemented solution or solution component is delivering the business value as intended. It is part of the defining and aligning process group.

THANK YOU