

# AVAILABILITY MANAGEMENT

## Process

The Availability Management process consists of two procedures.

The first procedure is called "Service Infrastructure Design". This procedure is used by availability managers when they design new [service infrastructures](#) or when they adjust the design of existing service infrastructures.

The second procedure is called "Availability Tracking". It is used by availability managers when they track the [availability](#) and [reliability](#) of the [services](#) which availability they are responsible for.

For more details about these procedures, click on the Process button to return to the graphical representation of this process and click on the box that represents the procedure that you would like to know more about. The graphical representation of this procedure will appear and you will be able to click on the Description button in the upper left-hand corner of your screen to read more about it.

## Mission

The mission of the Availability Management process is to ensure that the duration, and the number, of [service outages](#) do not cause the [availability](#) or [reliability](#) objectives of the [SLAs](#) to be violated.

## Scope

The scope of the Availability Management process is limited to the design of [service infrastructures](#) and the identification of [problems](#) that threaten to violate, or have already violated, the [availability](#) and/or [reliability](#) objectives specified in active [SLAs](#).

## Level of Detail

The level of detail in which Availability Management information is to be registered is specified in the field utilization guidelines for the fields of the form that is available in the service management application for the support of this process.

The following form is available in the service management application for the Availability Management process:

[Problem](#)

Click on the form to obtain the field utilization guidelines for each of its fields.

## Roles & Responsibilities

The table below presents the only role that plays a part in the Availability Management process, along with its responsibilities. Click on the role to review its profile.

Role	Responsibility
<a href="#">Availability manager</a>	<p>Designs <a href="#">service infrastructures</a> for the <a href="#">service(s)</a> for which he/she acts as the availability manager.</p> <p>Updates the design of the existing service infrastructures for which he/she acts as the availability manager, to ensure that the existing <a href="#">SLOs</a> will be met after a change has been implemented, or to ensure that the new <a href="#">SLRs</a> will be met if this is (one of) the objective(s) of the change.</p> <p>Tracks the <a href="#">availability</a> and <a href="#">reliability</a> for the service(s) for which he/she acts as the availability manager.</p> <p>Publishes the updated availability tracking overview of the service(s) for which he/she acts as the availability manager at the end of every availability tracking period.</p> <p>Registers problems when the availability and/or reliability objectives of the service(s) for which he/she acts as the availability manager have been, or are in danger of becoming, violated.</p>

## Key Performance Indicators

The table below presents the key performance indicator ([KPI](#)) that has been selected for tracking the success of the Availability Management process.

KPI	Definition	Frequency	Unit
<a href="#">Availability</a> or <a href="#">reliability</a> violations	The number of <a href="#">SLAs</a> for which the availability and/or reliability objective has been violated, divided by the total number of active SLAs.	Monthly	%

## Beneficiaries

The roles that rely on the Availability Management process are listed in the table below, along with their respective requirements for the Availability Management process.

Beneficiary	Requirement
Problem managers	Information about problems that have been identified within the availability tracking procedure, so that they can be processed efficiently through the Problem Management process.
Service desk agents	Information regarding the problems that affect the availability of <a href="#">services</a> provided by the organization for which they provide the customer interface.
Service level administrators	The <a href="#">SLO</a> values that are to be specified in new <a href="#">SLAs</a> or updates of existing SLAs.
Service level managers	Information regarding the SLOs that the availability manager proposed, taking into consideration the specified <a href="#">SLRs</a> and the proposed <a href="#">service infrastructure</a> design. <a href="#">Availability</a> and <a href="#">reliability</a> tracking information for the SLAs between the service provider organization and its <a href="#">customers</a> .

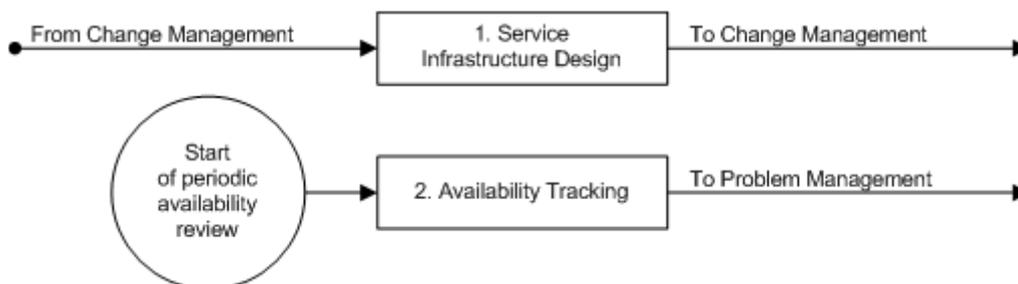
Service providers	Information regarding the SLOs that can be committed to with proposed service infrastructure designs.
Specialists	Information regarding problems that have been identified within the availability tracking procedure, and that have been assigned to specialists for <a href="#">analysis</a> .

## Owner

The owner of the Availability Management process is the Service Management [CAB](#).

This CAB is responsible for reviewing, and subsequently approving or rejecting, requests for improvement of the Availability Management process and its supporting functionality in the service management application.

## Process



## Procedure 1, Service Infrastructure Design

A change coordinator assigns a risk & impact analysis work order for the design of a new [service infrastructure](#) when he/she is planning a change to build a new service infrastructure. Similarly, a change coordinator assigns a work order for the adjustment of an existing service infrastructure design when he/she believes that an adjustment might be necessary to satisfy the requirements for which he/she is planning the change. These work orders are assigned to the availability manager who is responsible for the availability of the [service](#) for which the change was requested.

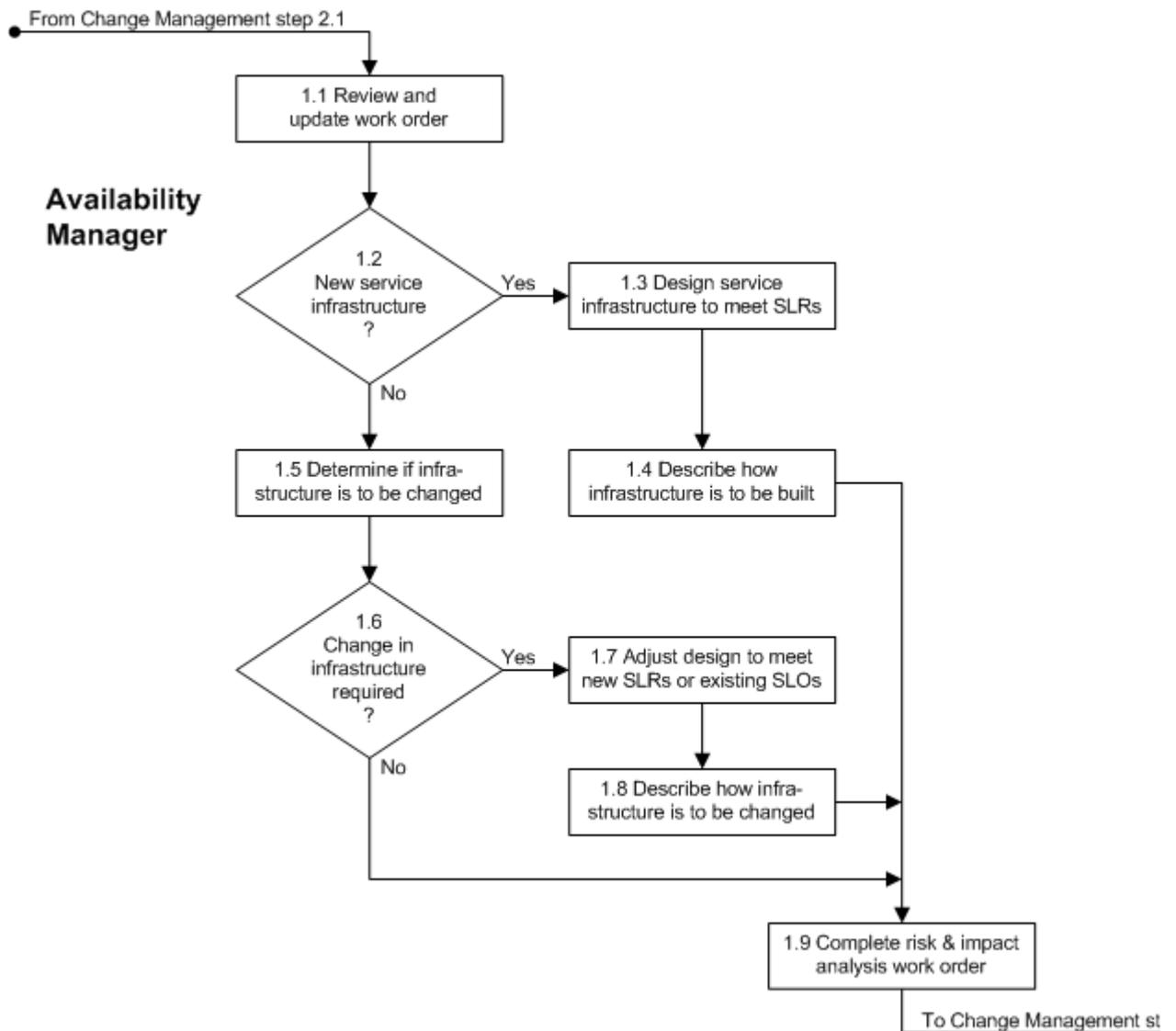
The work order is subsequently reviewed by the availability manager who determines if a new service infrastructure is to be built or if an existing service infrastructure needs to be altered.

If a new service infrastructure is to be built, the availability manager designs it in such a way that it will be capable of meeting the [SLRs](#) set by the service level manager. The availability manager specifies the [SLOs](#) that the proposed service infrastructure will be able to meet.

If an existing service infrastructure needs to be altered, the availability manager adjusts the design of the existing service infrastructure in such a way that the existing SLOs of the service will be met after the change has been implemented and the service infrastructure has been adjusted. However, if (one of) the objective(s) of the change is to adjust the existing SLOs, the availability manager adjusts the existing design of the service infrastructure to ensure that it will be capable of meeting the new SLRs.

After the new design has been created, the availability manager describes in the risk & impact analysis work order how it is to be implemented, before completing the work order.

## Procedure 1, Service Infrastructure Design



## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">1.1 Review and update work order</div>	<p>1.1.1 When the value in the <a href="#">Status</a> field of your work order has changed from "Registered" to "Assigned", open it and read the instructions in the <a href="#">Information</a> field.</p> <p>1.1.2 Set the <a href="#">Status</a> field of the work order to "Accepted" if you are not yet ready to start working on it.</p> <p>1.1.3 As soon as you are ready to work on the work order, set its <a href="#">Status</a> field to "In Progress".</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
	<p>1.2.1 If the work order requests the design of a new <a href="#">service infrastructure</a>, continue with 1.3.1. Otherwise go to 1.5.1.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>1.3 Design service infrastructure to meet SLRs</p> </div>	<p>1.3.1 Create a design for the new <a href="#">service infrastructure</a> that will be capable of meeting the <a href="#">SLRs</a>.</p> <p>Note: The SLRs have been set for the new service infrastructure by the service level manager to ensure that the customer's business requirements will be met.</p> <p>1.3.2 After the design of the service infrastructure has been completed, describe it in the <a href="#">Information update</a> field of the work order.</p> <p>1.3.3 Attach a drawing of the design to the work order to help other people (specifically the change coordinator) understand it. Specify the name of the drawing in the <a href="#">Information update</a> field.</p> <p>1.3.4 Also specify in the <a href="#">Information update</a> field the <a href="#">SLO</a> values that can be committed to with the proposed service infrastructure. The following SLOs are important to stipulate:</p> <ul style="list-style-type: none"> <li>Availability (%)</li> <li>Reliability</li> <li>Continuity</li> <li>Performance</li> <li>Maximum risk of data loss (hrs)</li> <li>Restore (hrs)</li> </ul> <p><b>Offline backup</b></p> <p>Please refer to the <a href="#">field utilization guidelines</a> of the Service Level Agreement form for information about these SLOs.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div data-bbox="236 443 531 517" style="border: 1px solid black; padding: 5px;">1.4 Describe how infrastructure is to be built</div>	<p>1.4.1 Describe in the <a href="#">Information update</a> field of the work order how the new <a href="#">service infrastructure</a> is to be built. Do this in a step-by-step manner that is easy to understand. If it is easier to describe the steps in a separate document, attach this document to the work order and specify the name of the document in the <a href="#">Information update</a> field.</p> <p>Note: This information will be used by the change coordinator to develop an implementation plan for the change.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div data-bbox="236 1196 531 1270" style="border: 1px solid black; padding: 5px;">1.5 Determine if infrastructure is to be changed</div>	<p>1.5.1 Read through the details of the change to which the work order is linked. Also read through the support requests and/or problems that are related to the change.</p> <p>Do this to find out whether or not the <a href="#">service infrastructure</a> needs to be adjusted in order to meet the existing <a href="#">SLOs</a> after the change has been implemented, or to meet the new <a href="#">SLRs</a> if this is (one of) the objective(s) of the change.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
 <p>1.6 Change in infrastructure required ?</p>	<p>1.6.1 If the existing <a href="#">service infrastructure</a> needs to be adjusted when the change is implemented, continue with 1.7.1. Otherwise go to 1.9.1.</p>

### Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>1.7 Adjust design to meet new SLRs or existing SLOs</p> </div>	<p>1.7.1 Adjust the design of the existing <a href="#">service infrastructure</a>. Do this in such a way that the existing <a href="#">SLOs</a> of the service will be met after the change has been implemented and the service infrastructure has been adjusted. However, if (one of) the objective(s) of the change is to adjust the existing SLOs, modify the design of the service infrastructure to ensure that it will be capable of meeting the new <a href="#">SLRs</a>.</p> <p>Note: The new SLRs have been set by the service level manger to ensure that the new business requirements, of the <a href="#">customer</a> organization(s) that are (going to be) using the service infrastructure, will be met.</p> <p>1.7.2 After the design of the existing service infrastructure has been adjusted, describe it in the <a href="#">Information update</a> field of the work order.</p> <p>1.7.3 Attach a drawing of the design to the work order to help other people (specifically the change coordinator) understand it. Specify the name of the drawing in the <a href="#">Information update</a> field.</p> <p>1.7.4 If (one of) the objective(s) of the change is to adjust the existing SLOs, specify in the <a href="#">Information update</a> field the new SLO values that can be committed to after the proposed modifications have been made to the existing service infrastructure. The following SLOs are important to stipulate even if some of them will not change:</p> <ul style="list-style-type: none"> <li>Availability (%)</li> <li>Reliability</li> <li>Continuity</li> </ul>

	<p>Performance</p> <p>Maximum risk of data loss (hrs)</p> <p>Restore (hrs)</p> <p>Offline backup</p> <p>Please refer to the <a href="#">field utilization guidelines</a> of the Service Level Agreement form for information about these SLOs.</p>
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## Work Instructions

Procedure Step	Work Instructions for Availability Managers
1.8 Describe how infrastructure is to be changed	<p>1.8.1 Describe in the <a href="#">Information update</a> field of the work order how the existing <a href="#">service infrastructure</a> is to be modified. Do this in a step-by-step manner that is easy to understand. If it is easier to describe the steps in a separate document, attach this document to the work order and specify the name of the document in the <a href="#">Information update</a> field.</p> <p>Note: This information will be used by the change coordinator to develop an implementation plan for the change.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
1.9 Complete risk & impact analysis work order	<p>1.9.1 Summarize in the <a href="#">Result</a> field of the work order how the <a href="#">service infrastructure</a> is to be built (if it concerns a new service infrastructure), or how the service infrastructure is to be altered (in case of an existing service infrastructure).</p> <p>Note: If the change concerns an existing service infrastructure, and you determined in step 1.5.1 that it does not need to be modified, specify in the <a href="#">Result</a> field of the work order why this is not required.</p> <p>1.9.2 Set the <a href="#">Status</a> field of the work order to "Completed".</p>

## Procedure 2, Availability Tracking

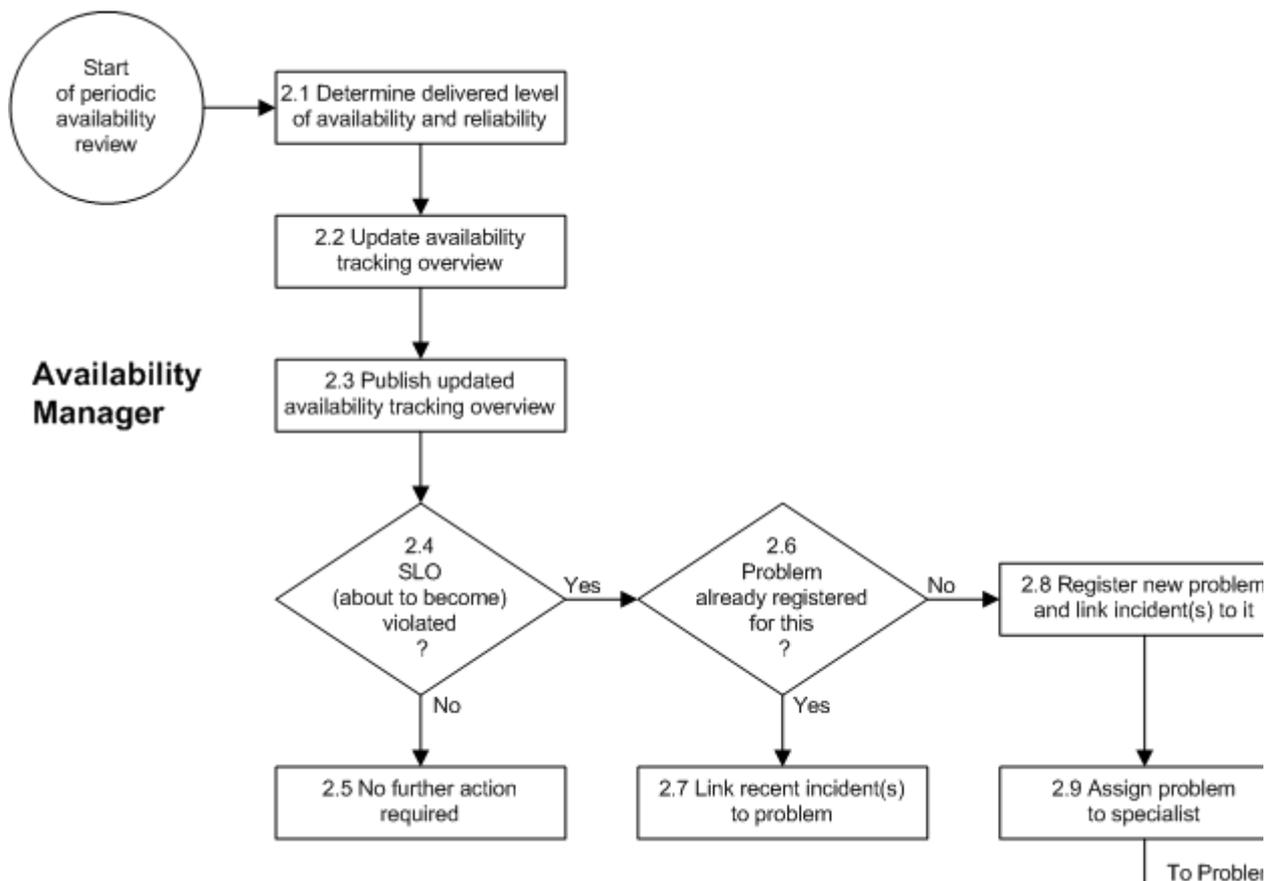
At the end of an availability tracking period, the availability manager finds out what the [availability](#) and [reliability](#) has been over the past period. He/she does this for every [SLA](#) that has been signed, and is still active, for the [service\(s\)](#) which availability he/she is responsible for. The availability manager then updates and publishes the availability tracking overview(s) of these service(s).

If the availability or reliability objective of one or more SLAs of the service is in danger of being violated, or if it has already been violated, the availability manager checks to find out if a problem has already been registered for this. If this is the case, the availability manager ensures that the support requests that have been caused by this problem during the past availability tracking period are linked to the problem.

If multiple problems have already been registered, because there are several [root causes](#) that are causing the availability and/or reliability objectives to be(come) violated, the availability manager links the support requests that appear to have been caused by these problems to the appropriate problem.

If one or more support requests appear to have been caused during the past availability tracking period by a root cause for which a problem has not yet been registered, the availability manager registers a new problem. He/she links the related support request(s) to the new problem and assigns it to the most appropriate specialist (in terms of skills and availability) for an [analysis](#).

## Procedure 2, Availability Tracking



## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div data-bbox="236 353 531 432" style="border: 1px solid black; padding: 5px;">2.1 Determine delivered level of availability and reliability</div>	<p data-bbox="571 360 1359 506">2.1.1 Generate a support request overview to determine the <a href="#">availability</a> and <a href="#">reliability</a> of the <a href="#">service infrastructure(s)</a> of the <a href="#">service</a> for which you are tracking the availability.</p> <p data-bbox="675 539 1286 618">Set the following filters to generate the support request overview:</p> <p data-bbox="707 651 1329 824">The <a href="#">Creation date</a> field contains a value that falls within the past availability tracking period, The <a href="#">Service</a> field contains a value equal to the service for which you are tracking the availability, The <a href="#">Impact</a> field is set to "High - Service Down for Several Users"</p> <p data-bbox="571 835 1359 936">2.1.2 Export the overview to a spreadsheet by selecting all support requests in the overview, copying them, and pasting them onto the spreadsheet.</p> <p data-bbox="571 947 1359 1272">2.1.3 For each support request (there should be very few), determine which <a href="#">SLAs</a> (i.e. which combinations of a <a href="#">service infrastructure</a> and a <a href="#">customer</a>) were affected by the <a href="#">service outage</a>. This information can be found on the <a href="#">SLA Tracking</a> tab page of the Support Request form. Note down the name of these SLAs in the spreadsheet to the right of the support request numbers. Remove any duplicate support requests from the spreadsheet.</p> <p data-bbox="571 1283 1359 1529">2.1.4 For each SLA that was affected by a service outage during the past availability tracking period (i.e. each SLA mentioned in the spreadsheet), determine the number of times that it was affected by a service outage during the past availability tracking period. This determines the reliability of the SLAs for the service for which you are tracking the availability.</p> <p data-bbox="571 1541 1359 1854">2.1.5 Use the value in the <a href="#">Outage duration</a> field of the support requests to determine the total duration of the service outages per SLA. For each SLA that was affected by a service outage during the past availability tracking period, divide the total outage duration during this period by the total number of <a href="#">service hours</a> during the same period. This determines the availability of the SLAs for the service for which you are tracking the availability.</p> <p data-bbox="571 1865 1359 1933">Note: The value in the <a href="#">Outage duration</a> field is already specified in service hours.</p> <p data-bbox="571 1944 1359 2045">Note: If the service hours of the SLAs that were affected by a specific service outage are not all the same, correct the outage duration for the SLAs with</p>

	different service hours. After this correction, the availability can be calculated for these SLAs using the corrected outage duration and the total number of service hours of these SLAs during the past availability tracking period.
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**Work Instructions**

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">2.2 Update availability tracking overview</div>	2.2.1 Open the availability tracking overview spreadsheet. Fill out the <a href="#">availability</a> and <a href="#">reliability</a> values for each <a href="#">SLA</a> for the <a href="#">service</a> for which you are tracking the availability. Ensure that the numbers are entered in the column for the past availability tracking period.

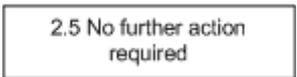
**Work Instructions**

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">2.3 Publish updated availability tracking overview</div>	2.3.1 Ensure that the updated availability tracking overview of the <a href="#">service</a> for which you are tracking the availability is published on the service management web site.

**Work Instructions**

Procedure Step	Work Instructions for Availability Managers
 <p>2.4 SLO (about to become) violated ?</p>	<p>2.4.1 If the <a href="#">availability</a> or <a href="#">reliability</a> objective of one or more <a href="#">SLAs</a> of the <a href="#">service</a> for which you are tracking the availability is in danger of being violated, or if it has already been violated, go to 2.6.1. Otherwise continue with 2.5.1.</p>

### Work Instructions

Procedure Step	Work Instructions for Availability Managers
 <p>2.5 No further action required</p>	<p>2.5.1 Based on the results of the past availability tracking period, there is no need to take any action as the <a href="#">availability</a> and <a href="#">reliability</a> objectives are currently not in danger of being violated.</p>

### Work Instructions

Procedure Step	Work Instructions for Availability Managers
 <p>2.6 Problem already registered for this ?</p>	<p>2.6.1 Of the <a href="#">service</a> for which you are tracking the availability, review the list of open and dead-end problems (i.e. problems that have a value in the <a href="#">Status</a> field between "Registered" and "Dead-End").</p> <p>2.6.2 Also review the service's problems that have been resolved during the past availability tracking period (i.e. problems that have recently been set to the status "Fixed"). The (impending) availability or reliability issue that you have identified might already have been dealt with.</p> <p>2.6.3 If one or more problems have already been registered to deal with, or have already dealt with, the (impending) availability or reliability issue, continue with 2.7.1. Otherwise go to 2.8.1.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content;">2.7 Link recent incident(s) to problem</div>	<p>2.7.1 Review the list of support requests that you generated earlier for the past availability tracking period. Determine which of these support requests appear to have been caused by the problem that was already registered to deal with the (impending) <a href="#">availability</a> or <a href="#">reliability</a> issue of the <a href="#">service</a> for which you are tracking the availability.</p> <p>2.7.2 Open the problem that was already registered to deal with the (impending) availability or reliability issue.</p> <p>2.7.3 Click on the <a href="#">Relations</a> tab of the problem. Link the support request(s) that appear to have been caused by this problem, and which have not already been linked, to this problem.</p> <p>Note: If multiple problems have already been registered, because there are several root causes that are causing the availability and/or reliability objectives to be(come) violated, link support requests that appear to have been caused by these problems to the appropriate problem.</p> <p>Note: If the list contains one or more support requests that appear to have been caused by a root cause for which a problem has not yet been registered, continue with 2.8.1.</p>

## Work Instructions

Procedure Step	Work Instructions for Availability Managers
<div style="border: 1px solid black; padding: 5px; width: fit-content;">2.8 Register new problem and link incident(s) to it</div>	<p>2.8.1 Open a new problem. Leave the <a href="#">Status</a> field of the problem set to "Registered" (its default value).</p> <p>2.8.2 Ensure that the problem manager of the affected <a href="#">service</a> (i.e. the service for which you are tracking the availability) is selected in the <a href="#">Manager</a> field of the problem.</p> <p>2.8.3 Select the affected service in the <a href="#">Service</a> field of the problem.</p> <p>2.8.4 Enter a short description of the problem in the <a href="#">Description</a> field and provide a detailed description of the symptoms of the problem in the <a href="#">Information update</a> field.</p>

	<p>2.8.5 If already known, select the causing <a href="#">CI</a> in the <a href="#">CI</a> field of the problem.</p> <p>2.8.6 Select the category "Reactive - Existing Problem" in the <a href="#">Category</a> field of the problem.</p> <p>2.8.7 Select the appropriate severity level in the <a href="#">Severity</a> field of the problem.</p> <p>2.8.8 Review the list of support requests that you generated earlier for the past availability tracking period. Determine which of these support requests are related to this problem.</p> <p>2.8.9 Click on the <a href="#">Relations</a> tab of the problem and link the related support request(s) of the list to it.</p> <p>Note: The service management application automatically informs the <a href="#">service desk</a> of the new problem via e-mail when a problem with the category "Reactive - Existing Problem" is saved for the first time.</p>
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## Work Instructions

Procedure Step	Work Instructions for Availability Managers
2.9 Assign problem to specialist	<p>2.9.1 Determine which specialist is best suited (in terms of skills and availability) to find the <a href="#">root cause</a> of the <a href="#">problem</a> and to propose a structural solution.</p> <p>2.9.2 Select this specialist in the <a href="#">Member</a> field of the problem.</p> <p>2.9.3 Set the <a href="#">Status</a> field of the problem to "Assigned".</p>

## Problem

The table below lists the fields of the Problem form and provides utilization guidelines for each field.

<i>Page</i>	<i>Main</i>
<b>Field</b>	<b>Utilization</b>
Number	This field contains the unique problem number. This number is automatically generated by the application.

Status	<p>Use this field to select the appropriate status for the problem from the following list of options:</p> <table border="0"> <tr> <td data-bbox="555 282 699 315">Registered</td> <td data-bbox="799 282 1337 315">The problem is not yet ready for <a href="#">analysis</a>.</td> </tr> <tr> <td data-bbox="555 322 671 356">Rejected</td> <td data-bbox="799 322 1294 389">The problem had better be assigned to another group or member.</td> </tr> <tr> <td data-bbox="555 396 679 430">Assigned</td> <td data-bbox="799 396 1283 430">The analysis of the problem can start.</td> </tr> <tr> <td data-bbox="555 436 679 470">Accepted</td> <td data-bbox="799 436 1342 573">The analysis of the problem will start as soon as the member to whom the problem has been assigned is ready to start working on it.</td> </tr> <tr> <td data-bbox="555 580 703 613">In Progress</td> <td data-bbox="799 580 1315 647">The analysis of the problem is currently being worked on.</td> </tr> <tr> <td data-bbox="555 654 730 687">Known Error</td> <td data-bbox="799 654 1326 721">The underlying cause of the problem has been found.</td> </tr> <tr> <td data-bbox="555 728 735 761">Waiting for...</td> <td data-bbox="799 728 1337 831">It is temporarily not possible to make any further progress with the analysis of the problem.</td> </tr> <tr> <td data-bbox="555 837 679 871">Analyzed</td> <td data-bbox="799 837 1326 974">The underlying cause of the problem has been found and a structural solution has been proposed, or it was not possible to propose a practical structural solution.</td> </tr> <tr> <td data-bbox="555 981 799 1014">Change Requested</td> <td data-bbox="799 981 1342 1120">The problem has been passed to the Change Management process for the implementation of the proposed structural solution.</td> </tr> <tr> <td data-bbox="555 1126 767 1160">Change Pending</td> <td data-bbox="799 1126 1342 1229">A change has been registered for the implementation of the proposed structural solution.</td> </tr> <tr> <td data-bbox="555 1236 699 1303">Change Completed</td> <td data-bbox="799 1236 1342 1344">The change that was registered for the implementation of the proposed structural solution has been completed.</td> </tr> <tr> <td data-bbox="555 1350 687 1384">Dead-End</td> <td data-bbox="799 1350 1294 1487">It is not possible to fix the problem because either its <a href="#">root cause</a> cannot be found, or it is currently not possible to propose a practical structural solution.</td> </tr> <tr> <td data-bbox="555 1494 612 1527">Fixed</td> <td data-bbox="799 1494 1262 1545">A structural solution for the problem has been implemented.</td> </tr> </table>	Registered	The problem is not yet ready for <a href="#">analysis</a> .	Rejected	The problem had better be assigned to another group or member.	Assigned	The analysis of the problem can start.	Accepted	The analysis of the problem will start as soon as the member to whom the problem has been assigned is ready to start working on it.	In Progress	The analysis of the problem is currently being worked on.	Known Error	The underlying cause of the problem has been found.	Waiting for...	It is temporarily not possible to make any further progress with the analysis of the problem.	Analyzed	The underlying cause of the problem has been found and a structural solution has been proposed, or it was not possible to propose a practical structural solution.	Change Requested	The problem has been passed to the Change Management process for the implementation of the proposed structural solution.	Change Pending	A change has been registered for the implementation of the proposed structural solution.	Change Completed	The change that was registered for the implementation of the proposed structural solution has been completed.	Dead-End	It is not possible to fix the problem because either its <a href="#">root cause</a> cannot be found, or it is currently not possible to propose a practical structural solution.	Fixed	A structural solution for the problem has been implemented.
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Change Pending	A change has been registered for the implementation of the proposed structural solution.																										
Change Completed	The change that was registered for the implementation of the proposed structural solution has been completed.																										
Dead-End	It is not possible to fix the problem because either its <a href="#">root cause</a> cannot be found, or it is currently not possible to propose a practical structural solution.																										
Fixed	A structural solution for the problem has been implemented.																										
	Separator																										
Manager	Use this field to select the problem manager who will assume responsibility for the problem.																										
Service	Use this field to select the <a href="#">service</a> in which the root cause resides. Select the special service "NORECORD - Service is not registered in database" if the root cause resides in an existing service that has not yet been registered in the application.																										
CI	Use this field to select the configuration item in which the root cause resides. Select the special CI with the code "NORECORD" if the CI has not yet been registered in the configuration management database ( <a href="#">CMDB</a> ).																										
	Separator																										

Description	Use this field to enter a short description of the symptom(s) that are caused by the problem.
Information	This field shows all information that was entered in the Information update field when the problem was saved. Above each entry, the application indicates who entered the text in the Information update field and when it was saved. Each new entry is inserted at the top of this field.
Information update	Use this field to enter a detailed description of the symptom(s) that result from the problem, to provide any additional information that could prove useful for the analysis of the problem, to describe the root cause of the problem, to provide information about the problem's progress towards a fix, and/or to provide details about how to fix the problem.
	Separator
Folder	This field is automatically set to the folder of the organization to which the person who created the problem belongs.
<b>Page</b>	<b>Details</b>
<b>Field</b>	<b>Utilization</b>
Category	Use this field to select the problem category from the following list of options:  Proactive - Anticipated Problem Reactive - Existing Problem
Severity	Use this field to select the appropriate severity of the problem from the following list of options:  For problems that caused, or are expected to cause, one or more non-critical <a href="#">service degradations</a> : Low - Analyze within 28 Days For problems that caused, or are expected to cause, one or more non-critical <a href="#">service outages</a> , or one or more critical service degradations: Medium - Analyze within 7 Days For problems that caused, or are expected to cause, one or more critical service outages: High - Analyze within 2 Days  Note that a service is degraded when some of its <a href="#">functionality</a> is not functioning, or when the response time of the service is slow. A service is down when none of its functionality can be accessed.
	Separator
Creation date	This field is automatically set to the date and time at which the problem was created.

Target date	This field is automatically set to the date and time at which the root cause analysis should be completed after the severity has been set.
Completion date	This field is automatically set to the date and time at which the problem status was set to "Dead-End" or "Fixed".
Assignment	Separator
Group	Use this field to select the group to which the problem is to be assigned.
Member	Use this field to select the person to which the problem is to be assigned.
Supplier	Use this field to select the supplier organization that has been asked to assist with the problem.
Reference number	Use this field to enter the unique reference number under which the problem has been registered by the supplier organization.
	Separator
Workaround	Use this field to describe the <a href="#">workaround</a> that should be applied to resolve <a href="#">incidents</a> caused by this problem until a structural solution has been implemented.
Solution	Use this field to describe how the problem has been resolved, i.e. how the root cause has been removed or permanently worked around.
<b>Page</b>	<b>Relations</b>
<b>Field</b>	<b>Utilization</b>
Relations	Use this field to create a link with support requests that have been caused by this problem (when the problem category is "Reactive - Existing Problem"). Use this field also to create a link with the support requests that have been registered to warn of this potential problem (when the problem category is "Proactive - Anticipated Problem"). This field is also used to create a link with the change that is to fix or prevent the problem.
<b>Page</b>	<b>History</b>
<b>Field</b>	<b>Utilization</b>
Registration	The application automatically specifies in this field who created the item and when it was created. The application also uses this field to indicate who last updated the item and when this was done.
History	The application automatically creates a line when an audited field is filled out or updated. For each history line the application specifies who caused it to be created and when it was created.