Getting Started

Getting Started

 Issue
 1.0

 Date
 2023-06-15





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Contents

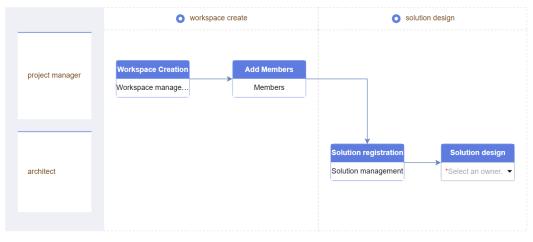
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Building a Solution on HaydnCSF

Overview

This section describes how architects can quickly register and design solutions on HaydnCSF. Figure 1-1 shows the fast solution process. The fast solution process is recommended for referencing architectures and designing solutions.

Figure 1-1 Fast solution process



Prerequisites

You are a HaydnCSF user and have been assigned the architect role. For details about how to become a Haydn user, see **Accessing HaydnCSF**. For details about user roles, see **HaydnCSF User Access Permissions**.

Registering a Solution

1. Log in to HaydnCSF. In the upper right corner, select **Solution design** for **Current workbench**.

Figure 1-2 Scenario selection

(jj) HaydnCSF ⑦	Homepage	Workspaces	To-Dos	Operations Center		User G	iulde Curren	nt workbench Solution design
Real time inspection of design rules					O HIL		te 💼	olution design chnical and information architecture sign
Real time inspection of integrated paths, continuous precipitation of design rules, and lifecycle management of design rules					•		🖯 🖯 Hu	aseline building Jawei- and Pariner-led baseline rification
					My To-Dos	My Applications		ustom verification aution POC and custom verification
					My Invitation	points	i 💼 Joi	ertification test int operations and Huawei Cloud eveloper Program certification

2. Click **New Solution**. On the displayed page, select **Create workspace**, specify the workspace name. Click **Confirm**.

Figure 1-3 Creating a solution

∰ HaydnCSF ⑦	Homepage Workspaces To-Dos Operations Center	User Guide Current workbench Solution design
		My Invitation points My Badges
My Footprint ③	New Solution ×	View/More
	* Please select a workspace Create workspace Use existing	2
Registration Solution Management: Design More Registration	* Workspace Name Exercise wolkrspace Continm Cancel	More Registration Solution Management Design More
Solution Design		
All Pending design Pending review Workspace:	Phase: Solution design	n 🖉 Solution Design
New Solution		

3. Specify information required. For details, see Table 1-1.

Table 1-1 Solution	registration	parameters
--------------------	--------------	------------

Parameter	Description
Solution Type	Select a solution type.
	 Reference architectures: include PPT solutions, 0-1 incubation, and product portfolios that cannot be replicated. Replicability or deliverability is not promised. Problem handling suggestions are provided based on reference architectures. Only product technical support is provided. Delivery verification is required in customer projects (Huawei and partners are responsible for delivery separately).
	 Huawei Lead: As the solution owner, Huawei takes the lead in industry scenario and partner selection, initiates a solution, designs and verifies the solution jointly with partners, outputs solution offerings, and specifies the GTM path, customer development strategy, contract signing path, delivery strategy, and O&M strategy. Huawei is responsible for solution competitiveness and business success.
	• Partner Lead : A partner who meets the partner-led solution review requirements is the solution owner. The partner takes the lead in solution initiation, designs and verifies the solution jointly with Huawei, outputs solution offerings, and specifies the GTM path, customer development strategy, contract signing path, delivery strategy, and O&M strategy. Huawei PDM and PSA assist partners in ensuring the competitiveness and business success of the solution.
	• Joint operations products: products that are jointly operated by Huawei Cloud and partners. There are preset reliability requirements and reliability checks for joint products.
	• Developer application building : a joint solution building program for technical partners. It strengthens technical enablement and support for partners during solution and service construction and migration, provides technical capability certification, and provides marketing and business support for certified solutions and services.
	• Advanced cloud software: The advanced cloud software certification used to verify that partners' products and software have been reconstructed and optimized using Huawei Cloud technologies and can create value for customers.
	• POC : the design and verification before project implementation.
	• Development & Migration incentives : competitive software products and solutions in the industry. This

Parameter	Description
	product or solution is critical to enhancing Huawei Cloud capabilities or entering the corresponding industry and acquiring customers. After strict process evaluation, the PDM applies for this product or solution for partners.
	• Custom verification : The entire process pipeline of solution building and solution verification supports customized skipping of certain phases.
	• Other : solutions beyond the above categories.
Select Process	 Select Fast Solution Process and specify yourself as the solution design owner. The Common Solution Process consists of three phases colution registration solution and
	phases: solution registration, solution design, and solution review.
	• The Fast Solution Process includes solution registration and solution design.
Associate CSBI	Optional. You can associate the solution with CSBI if the solution has been initiated on Huawei Cloud.
	It is recommended that Huawei/Partner-led baseline solutions be associated. If the project initiation is not complete, the association can be done through a solution change after the initiation is completed.
Solution Name	Specify the solution name.
Applicable Industries	Select an industry based on your actual situation. You can select multiple industries and sub-industries.
Deployment Environment	Set this parameter based on the base type used in the solution. Multiple base types can be selected.
Solution Version	(Optional) Specify the solution version.
Display Cover	(Optional) The cover resolution cannot exceed 1280 x 960, and the image size cannot exceed 10 MB.
Solution Description	Describe the solution from the following aspects: business pain points, application scenarios, and solution advantages and benefits.
Solution Attachment	(Optional) Upload solution attachments.

	Solution Registration						
Haydn CSF	Basic Information						
	* Solution Type (2)	Reference Architecture	-				
1ē	* Select Process ②	Fast Solution Process	•				
agement			 worksps 	ice create	solution delayer	isign	
olutions							
mbers		empty	Workspace Creation	Add Members			
Reports Vorkspace To-		project manager	Workspace Manage	Members			
los							
tecycle Bin <							
gn Center		empty			Solution registration	Solution design *Select an owner.	
Center 💌		architect			_		
ring Center							
	* Solution Name	Exercise solution					
	* Applicable Industries	Re 🔘	*				
	* Deployment Environment	Please select a deployment environ	nment.				
	Solution Version	Huawei Cloud					
	Associate CSBI	Huawei Cloud Stack					
		Intelligent EdgeSite (IES)					

Figure 1-4 Creating a solution

4. Click Submit.

The process enters the solution design phase. The system generates a solution design to-do task for the solution design owner. If the owner has subscribed the email notification on HaydnCSF, the owner will receive an email notification.

Figure 1-5 Solution design to-dos

💮 HaydnCSF 🤅	0	Homepage	Workspaces	To-Dos	Operation	ns Center	User Guide	Current workbench	Solution design v
	My To-Dos	235				My Applications	🗟 154		
	Completed 936	Total 1171				Completed 136	To	tal 290	
							Workspace	 Enter-Worksp 	Dace Q C
Workspace	business name	To-Dos 🟹	2	Creat	ted J⊟		Retention Duration ↓Ξ	Operation	
标	ii	Solution De	sign	2023/	05/04 10:55:	59 GMT+08:00	2Days58Minutes	Handle Process H	istory

NOTE

• The solution can be edited in the solution registration and solution design phases. If you want to edit the solution after it is completed, you need to change the solution. See Figure 1-6.

Figure 1-6 Change Solution

Solution Management							
Create Using Template					Solution Name	 Enter-Solution Name 	QC
Solution Name(Solution Version)	Source	Applicable Industries	Deployment Environ	Solution Phase ⑦ 🍞	Created by	Creating Time	Operation
~	Inside Hayton	Retail	Huawei Cloud	 Design completion Solution Change Rev 	iew ^{ji}	2023/04/18 10:58:15	Edit More 👻
~	Inside Hayton	Retail	Huawei Cloud	Design completion	r i i i i i i i i i i i i i i i i i i i	2023/04/18 10:35:58	Edit More 🔺
~	Inside Hayton	Retail	Huawei Cloud	 Design completion 	μ	2023/04/13 11:47:	sign
~	Inside Hayton	Retail, Manufacturing	Huawei Cloud	 Design completion 	ji		lete
~	Inside Hayton	Retail, Manufacturing	Huawei Cloud	Design completion	ji		ution Change
	Create Using Template Solution Name(Solution Version)	Create Create Using Template Solution Name(Solution Version) Source Solution Name(Solution Version) Inside Hayton	Create Create Source Applicable Industries Solution Name(Solution Version) Source Applicable Industries Inside Hayton Retail Inside Hayton Retail Inside Hayton Retail Inside Hayton Retail Inside Hayton Retail	Create Create Using Template Solution Name(Solution Version) Source Applicable Industries Deployment Environ Inside Hayton Retail Huavei Cloud Inside Hayton Retail Huavei Cloud	Create Using Template Solution Warne(Solution Version) Source Applicable Industries Deployment Environ Solution Phase © Solution Name(Solution Version) Inside Hayton Retail Huaree Cloud Design completion Inside Hayton Retail Huaree Cloud Design completion Desi	Create Create Solution Name Solution Name(Solution Version) Source Applicable Industries Deployment Environ Solution Phase ⑦ ♥ Created by Inside Hayton Retail Huavei Cloud © Design completion r Inside Hayton Retail Huavei Cloud © Design completion r Inside Hayton Retail Huavei Cloud © Design completion r Inside Hayton Retail Huavei Cloud © Design completion r	Create Create Using Template Solution Name Enter Solution Name Solution Name Solution Name Created by Creating Time Despin completion Solution Change Review 2023/04/18 10.58 15 Inside Hayton Retail Huseel Cloud Despin completion 2023/04/18 10.58 15 Inside Hayton Retail Huseel Cloud Despin completion 2023/04/18 10.58 55 Inside Hayton Retail Huseel Cloud Despin completion 2023/04/18 10.51 47 Retail Huseel Cloud Despin completion 2023/04/18 11.47 Retail Huseel Cloud Despin completion 2023/04/17 14.24 Despin completion 2023/04/17 14.24 Despin completion Craege Solution Solution Solution

Designing Solution Architectures

1. Click the **To-Dos** tab. On the page displayed, locate the row that contains this **Solution design** and click **Handle** in the **Operation** column. See **Figure 1-7**.

Figure 1-7 To-Dos - solution design

💮 HaydnCSF	0	Homepage	Workspaces	To-Dos	Operation	ns Center	User Guide	Current workbench	Solution design
	My To-Dos	235				My Applications	a 154		
	Completed 936	Total 1171				Completed 136	3 Tot	al 290	
						_	Workspace	Enter-Works	ace Q
Workspace	business name	To-Dos 🏹	7	Creat	ted ↓⊟		Retention Deration JΞ	Operation	
		Solution De	əsign	2023/	05/04 10:55:5	59 GMT+08:00	2Days1hours1Minutes	Handle Process H	istory

2. Create an integration architecture.

In the left area of the page, click the plus sign (+) on the right of the solution name.

Table 1-2 Parameters of creating a	an integration architecture
------------------------------------	-----------------------------

Parameter	Description
Architecture Name	Specify an architecture name.
Architecture Template	• No template The canvas is empty. You need to drag and pull diagram elements from the diagram element library on the left to design the architecture.
	 Architecture template from solution acceleration field You can search for acceleration field architecture templates by template ID, solution name, applicable industry, and scenario and reference them for secondary editing.
	• Existing architecture You can locate the integration architecture of workspaces you created or joined based on the workspace name, solution name, or integration architecture name. You can then copy the integration architecture to the current workspace for secondary editing.
Architecture Description	This parameter describes the service flow and data flow of the entire architecture.

Take Solution Acceleration Architecture Template as an example. To reference an architecture template from the Solution Acceleration Field, enter a keyword to search for the architecture template. Click **Details** to view the template details. Select an architecture template from the search results and click **OK**. See **Figure 1-8**. To reference a template on a new canvas, click the **Recommended Architecture** button in the lower right corner of the canvas to search for and reference the template.

Figure	1-8	Creating	an	integration	architecture

C Design Center Switch to Design Change	e Lisi		
•	Integrated Architecture Design	Cloud Service Specification Configuration	
Technical Architecture			
▼ Operation ▼ P	New Integration Arc	hitecture	×
6 - b	* Architecture Name	Please enter an architecture name	
	Architecture Template	O No template O Acceleration Field Architecture Template O Copy from existing architecture Wizard Architecture Generation	
Create deployment architecture.	* Deployment Environment	Huawei Clo 💿 👻	
+∉ Information Architecture (+)	* Select Template	Enter keywords to search for templates.	
[]	Architecture Description	Please enter an architecture description.	

3. Design the integration architecture.

Design the architecture diagram using the diagram element panel on the left and the toolbar panel on the top. Click the save button in the upper right corner. By default, automatic saving is enabled, and your edits are saved every 5 minutes.

- 4. Create a manual deployment architecture.
 - a. Switch to the **Cloud Service Specification Configuration** tab page and then click the plus sign.

The deployment environment is related to the base to which the solution applies. A solution can have deployment architectures of different bases.

Figure 1-9 Creating a deployment architecture (graphic mode)

C Design Center Switch to Design Chan	ge List	
· · · · · ·	Integrated Architecture Design	Cloud Service Specification Configuration
Technical Architecture (+)	Select or add a manual de 🔻	⊕ 50% ▼
▼: Operation ▼	New Deployment A	rchitecture
[]]	* Architecture Name	
Create deployment architecture.	* Architecture Type	Manual Deployment (Manual deployment (graphical mode) Auto Deployment(iot) Auto Deployment(cam)
	* Deployment Environment	Please select a deployment environment.
• € Information Architecture	Architecture Description	Please enter an architecture description
6 5		

b. Configure the cloud service specifications.

In graphic mode, click **Cloud Service Specification Configuration** and double-click the diagram element to be configured.

Integrated Ar	chitecture Design Cloud Service Specification C	Configuration						
Joint operation	solution (li 👻 🕀	50%	50% 🗸 🛛 🔾 🖉 🖉 🖉					
ECS	Select Specifications	<u> </u>		\checkmark		<		
Specification Cor	figuration Information	CDN		ELB				
Cloud Service	Elastic Cloud Server							
Specifications Quantity Charging Mode	Specifications: x86 computing general compu- ting s6 large 2 2 cores 4 GB image AlmaLi nux AlmaLinux 8 4 64-bit system disk genera -purpose SSD 40 GB EIP: Dynamic BGP E xclusive Billing by bandwidth 5 Mbit/s 1 Yearly/Monthly	Object Storage Service	HSS	HSS	HSS			
Charging Period	1Month(s)							
Reference Price	¥ 295.2		ECS	ECS	ECS			
Description								
		8	\frown		8			
			8					
			Relational Database Service		CES	Moderation		

Figure 1-10 Cloud service specifications configuration

c. Preview the configuration list.

Figure 1-11 Cloud service configuration list

						0					E
oint operatio	ion solution (li 🔻	Ð			50%	* 🕀		5			lā
ELB	> List Preview	No.	Name	Cloud service	Specifications	Qua	Charging M	Charging Period	Reference P	Description	
		1	Object Stora	Object Stora	Product Type: Object Storag e Standard Storage Single AZ Storage Package 40 G B	1	Yearly/Monthly	1Month(s)	¥ 1		
ł	HSS	2	ELB	Elastic Load	Instance flavor type: shared I oad balancer IP fee: 1 LCU Dynamic BG P Bandwidth: dynamic BGP b andwidth 1 Mbit/s	1	Pay-per-use	1hour(s)	¥ 0.4		
E	ECS	3	ECS	Elastic Cloud	Flavor: x86 computing gen eral computing s6 large 2 2-core 4 GB Image: AlmaLinux AlmaLin ux 8.4 64bit System disk: general-purpos e SSD 40 GB EIP: dynamic BGP exclusiv e pay-per-bandwidth 5 Mb It/s	1	Yearly/Monthly	1Month(s)	¥ 295.2		
		4	CDN	Content Deli	Resource package type: traff ic package for Chinese Main land 500 GB	1	Yearly/Monthly	6Month(s)	¥ 88		
		5	HSS	Enterprise H	Specification: Enterprise Edit ion	1	Yearly/Monthly	1Month(s)	¥ 90		
		6	HSS	Enterprise H	Specification: Enterprise Edit	1	Yearly/Monthly	1Month(s)	¥ 90		

5. Submit the architecture for review.

Click **Submit for Review**. In the dialog box that is displayed, specify the solution review owner and enter the remarks (optional), and click **Submit**. You can select more than one review owners.

For fast solution process, the system reviews the solution architecture by default. You do not need to select a review owner.

Figure 1-12 Solution design - submit for review

ange List						Export Solution	Submit for Review
Integrated Architecture Design	Clo	Submit for Review		×	_		
16:9 (1600×900) 🔻	1	Submit for Review		*		Path	🕫 i Q i 🖬 i
Pent element library Sub-scenario archit		* Solution Review Owner 🕐	Please select the solution review owner (Mul	•			
Search Diagram Element Q		Remarks	Please enter remarks.				
Standard Color Emboss							
				0/200			
Aa 🗌 🗌			Submit Cancel				F

6. Review the solution. (Skip this step in a fast solution process.)

In a fast solution process, the system reviews the solution architecture by default. You can skip this step.

Figure 1-13 Solution design completed

(Hayan)

HaydnCSF		Create	Create Using Template					Solution Name	-Enter-Solution Name	QC
		Solu	tion Name(Solution Version)	Source	Applicable Industries	Deployment Environ	Solution Phase ⑦ 🖓	Created by	Creating Time	Operation
	1.	~		Inside Hayton	Logistics	Huawei Cloud	Design completion			Edit More 🔻
Workspace Management	•	~		Inside Hayton	Retail	Huawei Cloud	 Solution design 			Edit More 👻

2 Verifying a Solution on HaydnCSF

This section describes how to verify solutions on HaydnCSF.

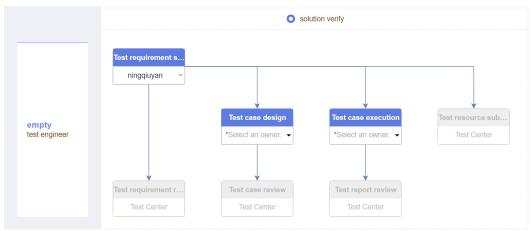


Figure 2-1 Solution verification

Prerequisites

- You are a HaydnCSF user, and your role is an architect role or a test engineer. A HaydnCSF user can have multiple roles. For details about how to become a HaydnCSF user, see Accessing HaydnCSF. For details about user roles, see HaydnCSF User Access Permissions.
- 2. You have **created a workspace** and invited related members to the workspace. For details, see **Member Management**.
- 3. You have built a solution on HaydnCSF.

NOTE

The corresponding requirement review owner or test case design owner of each step will receive to-do notifications and handle them through the **To-Dos** page, quick link, or menu bar.

Submitting a Test Requirement

You need to specify your test requirements before verifying your solution. To create a test requirement on HaydnCSF, your role in the workspace should be an architect or test engineer.

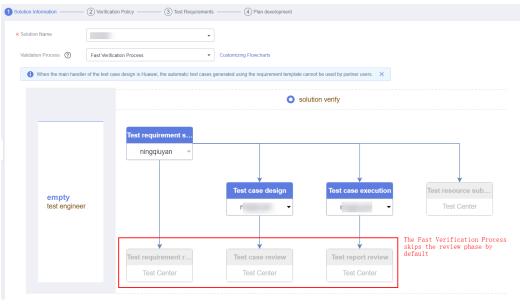
- 1. Create a test requirement.
 - a. Log in to HaydnCSF and enter the workspace that has been created during the **solution building**.
 - b. In the navigation pane on the left, choose **Verification Center** > **Requirements** and click **Create**.
 - c. On the page displayed, select the solution displayed in the **Workspace To-Dos** and configure the verification requirements.

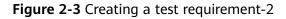
Parameter	Description				
Solution Name	Select a solution built during the solution building . Before creating a test requirement, ensure that a solution has been built. You can create more than one requirement for a solution.				
Verification	This section takes Fast Solution Process as an example.				
Process	• Fast Solution Process : Build a solution quickly on HaydnCSF. By default, all key steps of this process do not need to be reviewed.				
	 Common Solution Process: Build a solution using the common solution process on HaydnCSF. All key steps of this process need to be reviewed. 				
	• Customize Flowcharts : Customize the steps you want to skip.				
	Default handlers are specified for all steps of these processes. They can be changed by either the corresponding handlers or the workspace administrator in Workspace To-Dos .				
Deployment Environment	Select the type of the Huawei Cloud deployment environment of the application to be verified.				
Verification Policy	Independent Verification indicates that the solution is verified in an independent deployment environment. Select the corresponding deployment environments and solutions.				
Deployment Account	Huawei Cloud account for deploying resources and applications				
Test Requirement Name	Specify the test requirement name, for example, "xx Solution Verification Requirement".				

Table 2-1 Test requirement parameters

Parameter	Description
Requirement Start and End Date	Expected start and end dates of verification
Test Requirement Type	Select a test requirement type based on your service requirements. Subsequent test cases will be classified based on the requirement type. Each test requirement type can have multiple test requirements.
	You can use templates for a quick experience. You can also select and modify the requirements and test cases in these templates based on your needs.
Test Plan	Make a test plan that includes the plan name, start and end dates, and testing steps.

Figure 2-2 Creating a test requirement-1

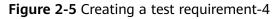




	HC deployment architecture ☆ ⑦ HC 0321 Presentat ♥ The fast verification process skips resource provisioning. The deployment architecture is optional.									
	0321 Presentation									
No.	Cloud Service	Specifications	Quantity	Deployment En	Charging Mode	Charging Period	Total Price	Description		
1	OBS Parallel Fil	Product Type: Object Storage Standard Storage Sin gle AZ Storage Package 40 GB	1	Huawei Cloud	Yearly/Monthly	1 Month(s)	¥ 1.00			

1 Solution	Information 2 Verific	tion Policy		
	equirement Requirement Name	Select the template you want	×	
★ Requ	irements for start and end time	-Enter-Template Name	Q	
		Template Name Requirements Name Template Descript	tion	
Load	I From Template Export Req	O [Associated Product Certifi Haydn V4.2 Requirement T [Associated Offerin	g Certifi	
No.	* Test Requirement Type	Cloud Innovation Certificat Compatible technical certifi [Cloud Innovation C	Certificat	Operation
NO.	* lest Requirement Type	O Self-built High-Level Cloud The reliability check	klist and	Operation
	Function Test	O Integration Verification of B BS Architecture & Shared	1	Insert Above More
		MIC Black Lake MES - Kin		6 /64
	Function Test	5 • Total Records: 81 < 1 2 3 4 5 … 17 >	3	Insert Above More
			ate and click OK to load t	he 6/64
	Performance Test		nd cases in the template. the requirements and case	Insert Above More
		」 [4] 杜特特特人 心身体的动力时间,20% 每天的盐油和加速的,20% 出现的 20% 出现 20%		7.004

Figure 2-4 Creating a test requirement-3



Solution Information	Verification Policy	3 Test Requirements	Plan development			
Test Plan						
★ Test Plan Name	demo-Test Plan	×				
* Planned start and end time	May 06, 2023 - May 31, 2023	Ē				
* Work Task Breakdown						
Load Template Impor	t Test Plan Download Test F	Plan Template				
No. * Work Item Name	Work Item Description	* Work Item start and end time	* Owner ⑦	Related Process Items	* Work Item Status	Operation
Test case design	Enter at least one line. This field is optional. 20 0 /2,000	May 06, 2023 — May 10, 2023 🔠	guest 🕲 🔻	Test ca 🔘 🔻	New	Insert Up Delete
			⊕ Add			
Email Send	guest 💿	•				

2. Save the test requirement.

The status of the saved requirements can be modified by the architect or the test engineer in the workspace.

3. Submit the test requirement.

The creator of the requirement can change the requirement after it is submitted.

Designing a Test Case

Only the test engineer role can create test cases on HaydnCSF.

Log in to HaydnCSF as the test case design owner specified during the requirement creation. Enter the workspace created during the **solution building**. In the navigation pane on the left, choose **Verification Center** > **Cases**.

1. Create a test case.

If you select **Load Template** when you create your test requirement, the test cases in the template will be automatically displayed in the **Case Management** page. You can edit or delete these cases based on your needs.

- Manually add a test case.

In the **Test Requirements** pane, select the requirement and click **Create**.

Figure 2-6 Managing test cases

(1940) HaydnCSF	Case Management											
Hayuncon	Test Requirements Common Test Cases	Case List										
	Require	Manual Tes Punction Automation API Automation Performance Automation Safety Automation Case Overview Case Recycle Bin										
Management Design Center		Create Import More +										
Test Center +	- Function Test	No. Case No. Case Name Case 🖓 Requirements Description Review Status 🖓 Executing Status 🖓										
	Service function test Completed the function test	T TC2023050601117 xx (level-1 function name) Function Completed the function te • Test case design review • Pending										
Requirements	Service Control Test Complete the service control											
Plans	+	Z TC2023050601118 Service Expiration Remin Function Complete the service cont •Test case design review • Pending										
Cases	+	TC2023050601119 Service Expiration Constr Function Complete the service cont eTest case design review Pending										
Resources	+	E 4 TC2023050601120 Service Renewal Recovery Function Complete the service cont Interface design review Image Pending										
Issues	÷											
Reports	+											

Figure 2-7 Manually creating a test case

	Case List	New Cases X					Proce
В	asic Information						
	Requirements Name	demo		* Case Type	Function Test		
	Requirements Descriptio	Function Test Completed 1		* Case Name	Service Expiration Constraints		
*	Deployment Environmen	Huawel Cloud		* Priority	Medium		•
	Description						
	Please enter the case	description					
	Prerequisites						0/ 1, 000
	Prerequisities Please enter prerequis	805					
*	Test Procedure						0/ 1, 000
	No.	Step Description (?)	Expected Re	sult		Operation	
	1	Configure the service to expire in 1 to 7 days. Z. Observe the system interface, SMS message, and email. *********************************	1. The cont 2. A messa	Iguration is successfu ge is displayed on the	il. system interface, SMS message, or email indicating that the service is about to expire.	Insert Up Up More 👻	
<		0/2,000			01	1,000	
			⊕ Add				
		pload Attachment					
	Restr	clion on attachment format zip, rar, doc, doc, jog, prog., msg., xis, xis/Restricted Most20attachments, each of which cannot exceedS e that the attachment does not contain: 1. Non-public information assets (including but not limited to key source code, faulty code, ar					
	OK Cance						

- Requirement Description: Select the requirement that the test case belongs to from the drop-down list.
- Case Name: Specify the test case name. It is recommended that you standardize the test case name so that the function can be reflected in the test case name.
- Deployment Environment: Select the development environment of the test case to be deployed from the drop-down list.
- Priority: Select the importance level of the test case from the dropdown list.
- **Description**: Describe the test case.
- Prerequisites: Customize the prerequisites for executing the test case.
- Step Description: Specify the steps involved in the test case.
- **Expected Result**: Enter the expected result of each step.

- Attachments: Upload the associated files required by the test case.
- Import a test case.

In the **Test Requirements** pane, select the test requirement and click **Import**. In the displayed dialogue box, click **Download Case Template**. Fill in the template and then upload it to HaydnCSF.

Figure 2-8 Importing a test case

		*	Import Case
nual Tes	Function Automation	AFTAu	File Import
No.	Case No.	Cas	Check for identical names ⑦ Ignore identical names ⑦ Do not check names
□ Ξ 1	TC2023050601117	×× (I	Select File The file format needs to be filled in according to the Download Case Template. Click.
□	TC2023050601118	Sen	Ensure that the attachment does not contain: 1. Non-public information assets (including but not limited to key source code, faulty code, and full set of product/platform source code); 2. Software or tools that are not authorized by the right holder; 3. RMS encrypted
3	TC2023050601119	Sen	file.
$\neg = 4$	TC2023050601120	Sen	Close

D NOTE

- HaydnCSF supports automatic testing. You can create an automatic test case on the Function Automation, API Automation or other automation tab pages. For details, see Case Management.
- 2. Only the test case design owner specified in **Submitting a Test Requirement** can create a test case. More than one owner can be specified. Other roles in the workspace can view the test cases but cannot create or change them.
- 3. To change the test case designer when you design or execute a test case, click **Change Case Designer** on the **Case Management** page.

Figure 2-9 Changing the case designer or executor

(dnCSF	Case Management			\$ Back to the old ver
uncor	Test Requirements Common Test Cases	Case List		Pro
	Requir • Search by requirement, solution, Q	Manual Tes Function Automation	API Automation Performance Automation Safety Automation Case Overview Case Recycle Bin	HIS
nent		Create Import More +		Case Name
Center	- Function Test	No. Case No.	Case Name Cas., W Requirements Descr., Review Status W Executing Status W Test Result 1	Croa V Recent Croating Time # Numbe Operation
	Service function test Completed the fun	-		
rements	Service Control Test. Complete the service	k	xx (byol-1 function na Functio Completed the functio @Test case design rev @ Panding	ni 2023-05-06 15:19:30 0 Edit / More +
	- •	□ = 2 TC20230506001118	Service Explantion Re Functia Complete the service @Test case design rev @ Panding	ni 2023-05-06 15:19:30 0 Edit More v
		□ = 3 TC2023060601119	Service Explosion Co Functia Complete the service @Test case design rev @ Pending	ni 2023-05-06 15:19:30 0 Edit More +
	+ •			
:43	÷ •		Service Renewal Rec Punctia Complete the service	n 2023-05-06 15:19:30 0 Edit More +
	÷ •			
s	÷ •			
enter 🗸	± 22			
· ·	+ 11 (a)			
	•			
	± c			
	E n F			
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				×
	+ •			

2. Submit the test case.

Submit the test case after finishing the design. This section takes the fast solution process as an example, so the test case will pass the review by default after being submitted.

Provisioning Cloud Service Resources and Deploying Applications

Test resources can be provisioned for the designed test cases. You can enter the resource provisioning page from resource provisioning to-dos or the resource management page of the Verification Center in your workspace.

Figure 2-10 Resource provisioning entry

(社)	Resource Management									
HaydnCSF						Test Requirement Name				
d (ឆ្	Solution Name	Test Requirement Name	Deployment Time ↓≡	Current Status 🍞	Handler	Operation				
Workspace . Management	0	F	2023/05/06 09:37:14 GMT+08:00	Ceployment completion		Resource provisioning More +				
Design Center	4	<i>k</i>		Deploying	n	Resource provisioning More +				
Test Center 🔺		J		Deploying	n	Resource provisioning More +				
Requirements	c	1		Ceploying	n	Resource provisioning More +				
Plans	1	2		Deploying	3	Resource provisioning More +				
Cases	1	1		Deploying)	Resource provisioning More +				
Resources	4	J	2023/03/09 15:08:49 GMT+08:00	Complexity and a completion		Resource provisioning More +				

Figure 2-11 Provisioning resources

HaydnCSF	R	ssource Management J	Cloud Service Reso	urce Provisioning									
		Basic Information											
- 		Associate Solution	Antocha Salatan Jan										
Workspace • Management		Associate Verification	Aaacaba Vanfustan Rayaarana Aaadaa aa										
Design Center		Cloud Service D	Cloud Service Resource List										
Test Center •		Joint solution (S											
Requirements		Reserve A Accord 6 and a											
Plana		Configuration J	oin	,									
Cases		List											
Resources		No.	Cloud Service	Specifications	Quantity	Charging Mode	Charging Period	Total Price	Support Auto	Description	Remarks		
Issues				Specifications: x86 computing general computing-plus c3ne.large.2 2-core 4 GB									
Reports		1	SAP Applicatio	Imaga: AlmaLinux AlmaLinux 8.4.64bit System disk: general-purpose SSD 49 GB	1	Yearly/Monthly	1Month(s)	¥ 373.50	No				
Sharing Center	<			EIP: dynamic BGP exclusive pay-per-bandwidth 5 Mbitis								0/500	
		2	Enterprise Host	Specification: Enterprise Edition	1	Yearly/Monthly	1Month(s)	¥ 90.00	No			0/500	
		1	Cloud backup	Venit Type: Cloud Server Backup Venit I 1000 GB	1	Yearly/Monthly	1Month(s)	¥ 200.00	No				
												0/500	

On the **Cloud Service Resource Provisioning** page, enter the remarks, and application and technology stack information. Then, click **Submit**.

 Table 2-2 Resource provisioning parameters

Parameter	Description
Remarks	Enter the remarks for each service in the list.
Application Information/ Technology Stack Information	Information about the applications and technology stack components required in the verification environment, such as WordPress and MySQL installed for website deployment.

Parameter	Description
Attachments	Files related to resource provisioning in the formats of zip, rar, tar, ppt, pptx, doc, docx, xls, xlsx, or pdf. A maximum of five files can be uploaded, with each no larger than 50 MB.
	The attachments must not contain non-public information assets (including but not limited to key source codes, compartmentalized codes, and full sets of product or platform source codes), unauthorized software or tools, or encrypted RMS files.

Executing the Test Case

Only the test engineer role can execute test cases on HaydnCSF.

- 1. Execute the test case.
 - a. Log in to HaydnCSF as the test case executor specified during the requirement creation. Enter the workspace created during the solution building. In the navigation pane on the left, choose Verification Center > Cases.
 - b. Select the test requirement and locate the test case to be executed. Click **More**, and select **Execute** from the drop-down list.

Figure 2-12 Case execution entry

ase Management								1 Back to the old v	Iversion
Test Requirements Common	Test Cases	Case List							Proce
Requir • Search by requirement,	solution, Q	Manual Tes Function Autom	tion API Automation	Performance Automation Safe	ty Automation Cas	Overview Case Recycle Bin			
- •	-	Create Import Mor	*				Case Name	Enter-Case Name Q	: @
+ Function Test		No. Case No.	Case Name	Cas Y Requirements Descr	Review Status 😽	Executing Status 🏹 Test Result 🖓	Crea Y Recent	Creating Time JE Numbe Operation	
+ •	95 MI \ 22	□ = 1 TC2023060601	17 xx (level-1 function ne.	Functio Completed the functio	Test case design rev	Pending	().	2023-05-06 15:19:30 0 Edit More +	
 	xd Re	□ Ξ 2 TC2023050601	18 Service Expiration Re.		Test case design rev	Pending	· · ·	2023-05-06 15:19:30 0 Edit More +	
	- C (10) > (10)	□ = 3 TC2023060601	19 Service Expiration Co.	Functio Complete the service	Test case design rev	Pending	e .	Click to execute the test case.	
Ð	1	□ Ξ 4 TC2023050601	20 Service Renewal Rec.		Test case design rev	Pending	e .	2023-05-06 15:19:30 0 Delete	
+	te 💷							New Question	

c. On the **Case Execution** page, enter the actual result of each step, and select a case status (**Pending, Executing**, or **Completed**) to complete the execution. You can copy the screenshot of the actual result to the box. You can also upload the attachments of the execution process.

Figure 2-13 Executing the test case

Case	Management								
s	earch by requirement, case name, and exe- Q	Case Li	st Case Execution ×						~
	demo To Be Execute(4) Executing(3) Executing c Function Test Completed the function test of the Pending Service Explosion Reminder Complete the service control test for the work	Executing Case Requirements Name Requirements Description			Case	е Туре	Function Test		
ŧ	Pending Service Expiration Reminder Pending Service Expiration Constraints Pending Service Renewal Recovery	Case No. Deployment	TC2023050601117 Huawel Cloud		Case	e Name rity	Service Expiration Reminder Medium		
		Environment Case Execution Type	Manual Test						
. ±		Description	Complete the service control test for the system. T 1. The license is about to explee. 2. The license explese servicely and the system is a (3) The system can be used properly after the licen	mavailable				I	
+		Test Procedure						Report Preview If you find a problem, click @New Ques	Jion
÷		No.	Test Procedure 1. Configure the service to expire in 1 to 7 2. Observe the system interface, SMS message, and enail.	Expected Result 1 Totaconfiguration to concentration 2 Association to concentration 2 Association to concentration 1 Totaconfiguration 1 Totaconfiguration <t< td=""><td>Actual result(Click the full screen A V B I U S The configuration is succ</td><td>- 23</td><td>he text editor to enter the full screen mode) ⊙</td><td>Remarks</td><td>000</td></t<>	Actual result(Click the full screen A V B I U S The configuration is succ	- 23	he text editor to enter the full screen mode) ⊙	Remarks	000

2. Create an issue.

You can create an issue on the **Case Management**, **Case Execution**, or **Issue Management** page.

Figure 2-14 Creating an issue on the case management page

Case List						Process History
Manual Tes Function Automation	API Automation	Performance Automation Safety Automation Case	Overview Case Recycle Bin			
Create Import More +				Case Name	▼ -Enter-Case Nar	me Q C 🚳
No. Case No.	Case Name	Cas 🍞 Requirements Descr Review Status 🍞	Executing Status 🖓 Test Result 🏹	Crea 🍞 Recent	Creating Time ↓ = Numbe	. Operation
□ Ξ 1 TC2023050601117	Service Expiration Re	Functio Completed the functio Test case design rev	Pending	ningqiu	2023-05-06 15:19:30 0	Edit More 🔺
□ Ξ 2 TC2023050601118	Service Expiration Re	Functio Complete the service Test case design rev	Pending	ningqiu	2023-05-06 15:19:30 0	Executing
3 TC2023050601119	Service Expiration Co	Functio Complete the service •Test case design rev	Pending	ningqiu		Delete
□ Ξ 4 TC2023050601120	Service Renewal Rec	Functio Complete the service Test case design rev	Pending	ningqiu	2023-05-06 15:19:30 0	New Question

Figure 2-15 Creating an issue on the case execution page

- demo	To Be Executed(4) Executing(0) Executing		Case C Refresh			Case Type	Function Test				
	Unction Test Completed the function test of the XXX solu	Name									
	Pending Service Expiration Reminder	Requirem	ets								
L E		Descriptio									
	Pending Service Expiration Reminder										
	Pending Service Expiration Constraints	Case No.	TC2023050601117			Case Name	Service Expiration Remind	kar			
	Pending Service Renewal Recovery	Deployme	Huawei Cloud			Priority	Medium				
÷		Environm									
+		Case	Manual Test								
ŧ		Execution									
Ŧ		Туре									
€ €		Descriptio	 The license is about to expire. The license expires severally and the sur- 	ystem. The test requirements are as follows: ystem is unavailable. the license is renewed, and the original data is not delet	d.					I	
÷		Prerequis	05								
+ + +		Test Proc	dure							eview If you find a problem, clice 🕞	New Question
÷		No.	Test Procedure	Expected Result	actual result(Click the fu	Il screen button of	the text editor to enter the f	full screen mode)	Ð	Remarks	
			 Configure the service to expire in 1 t days. 	to 7 1. The configuration is successful. 2. A message is displayed on the system	<u>A</u> ~ B I	⊻ 5 13	F 7 7 8	⊞ ~ ⇔ ←			
		1	 Observe the system interface, SMS message, and email. 	2. A message is deplayed on the system instrates, BMS message, or email indicate that the service is about to exple.	3 The configuration	n is successful.					0/ 2, 000

aydnCSF	Issue Management											
	Issue Management											
pace	New Export								Statistics Dashboard	My lasse.	Issue Ticks 💌 Please enter the treat	le ticke Q
Center	No. Issue Ticket No.	Issue Title	Association Case Na	Associate Requirement	Association Solution	Submitter 🍞	Responsible Owner 7	Severity T	Innue Status 😨	Creating Time JII	Last Processing Time	Operation
enter 🔺	1 BUG2023040701010			Joint Operation	н.,	nin		Minor	Accepted			Edt Delete
quirements as	2 BUG2023011901011			Joint Venture S	н.,	yer	4	Critical	 Submitted 			Edit Delete
ources												
es												
orts												

Figure 2-16 Creating an issue on the issue management page

Figure 2-17 Creating an issue

Issue Management New Question ×			\sim
Inne Management / New Question			
Issue Description	Basic Information		
+ loue 75e	★ Issue Status:	Submitted	
After a user is deleted, the application error	* Association	e:	
* Isse Description	Solution Name:		
	* Association	61	•
[Symptom] After a user is deleted, the application does not delete the user or disable the user.	Requirement		
[Procedure]	Name:		
[Expected Result] [Actual Result]	Association	Please select a requirement type.	*
[Cause]	Requirement (*) Type:		
[Suggestion]			
	Association Requirement (7)	Please select a requirement description.	*
	Description:		
	Associated Case	Please select associated test cases.	*
	Name:		
	Associated	Please select the involved cloud service.	×
	Service		
	Work Order No.:	Please enter the service tricket number.	
Process History	Associated trouble		
Phased Operated by Operation Time Result Description	licited No.:		
(b	· Seventy: (2)	Major	*
	· Responsible	Please select a handling owner.	٣
No data available.	Owner.		
	* expected repair	May 06, 2023	
	date:		
	Overdue reminder:		6
	Tag	Enter or select a label. The label contains a maximum of 30 characters. Commas are not allowed.	
	Attachment to	Upload Attachment	0
	Question:	Restriction on attachment format.zip, rar, doc, docx, jpg, png, mg, xis, xis/Restricted MostSattachments, each of which connot exceedSWE, and the file name cannot contain a comma.	
		connor exceeds/uses, and the tile name cannot contain a comma. Ensure that the attachment does not contain: 1. Non-public information assets (including but not limited to key source co	da, C
		Cancel	OK

Table 2-3 Parameters required for creating an issue	
---	--

Paramete r	Description
Issue Title	Enter a title for the new issue ticket. The title can contain key information such as the issue proposer, cloud service, or test case name.
lssue Descriptio n	Describe the issue in detail.
Associate d Solution	Select the solution associated with the issue from the drop- down list.
Associate d Requirem ent	Select the requirement associated with the issue from the drop- down list.
Requirem ent Type	Select the type of requirement associated with the issue from the drop-down list.
Associate d Case	Select the test case where the issue is identified.

Paramete r	Description
Service Ticket No.	If there is no issue ticket, create one as prompted and then enter the ticket ID.
Severity	• Critical : Critical issues that paralyze the system, for example, incorrect code, infinite loops, database deadlocks, and abnormal database connection or communication. As a result, the system or application breaks down, the system is suspended, or the data is lost. The key functions also become unavailable, and their modules or related modules are abnormal.
	• Major : Major issues that congest services, for example, major statement errors, API errors, and database tables, service rules, and default values without integrity constraints. As a result, some key functions become unavailable and the data is lost. The auxiliary functions also become unavailable and their modules are abnormal.
	• Minor : Common functional issues, for example, information errors, invalid module functions, incorrect log content, and unsatisfactory user experience and efficiency. As a result, some auxiliary functions are adversely affected, but can be used.
	• Information: Non-functional issues, for example, spelling mistakes, non-standard interfaces, unclear descriptions, test object issues, and other issues proposed by testers. As a result, some software defects cause inconvenience to the operators, but have little impact on function implementation.
Responsib le Owner	Select an owner in the workspace who is responsible for handling the issue from the drop-down list.
Expected Rectificati on Date	Select an expected date when the issue is resolved.
Overdue Reminder	A notification email will be sent if the issue is overdue. This function is enabled by default.
Tag	Add a tag to the issue so that you can search for the issue by tag on the Issue Management page.

3. Preview the report.

You can preview your test report during the case execution on the **Case Management** page in the **Verification Center**.

Figure 2-18 Report preview entry

	Case Management													
	Test Requirements Common Test Cases	Case Li	2											-
Ĵ.	Require	Manual Tes	Function Automation	API Automation Perfo	rmance Automa	tion Safety Automa	ion Case Overview	Case Recycle Bin						
		in Create	Import Name +							0	ne Name 🗸 👻	-Enter-Case	Name Q	С
	Function Test	No.	Case No.	Case Norse	Case 🖓	Requirements Description	Review Status 😨	Executing Status 7	Test Result 🙄	Create 7 Recent P	Creating Time 4E	Namber	Operation	
			TC2023050001117	Senice Expiration Remin	Function	Completed the function te	Test case design review	• Pending		ningqiyyin	2023-05-06 15 19 30 GM		Edit More +	
			TC2023050601118	Service Expiration Remin	Function		Test case design review.			ningqivyan	2023-05-06 15:19:30 GM		Edit More w	
				Service Expression Hermit	Function	Complete the service coll.	e test case design review	• Penang		ninggivyan	2023-05-06 15:19:30 GM	•	FOIL PIOLE +	
			TC2023050601119	Senice Expiration Censily	Function	Complete the service cont.	Test case design review	Panding		ningqivyan	2023-05-06 15:19:30 GM	0	Edit More +	
	•		TC2023050601120	Senice Reneval Recovery	Function	Complete the service cost.	Test case design review	· Pending		ningqivyan	2023-05-06 15:19:30 GM		Edit More +	
	•	=												
		14												
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		-												
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		-												
		-												
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Figure 2-19 Report preview

ase Manageme	nt / Report Preview						
Test Resu	R	Case Execution Result (Close-loop o	f associated issues (Total0)	
		Passed	Not Passed				
List of Us	e Cases						
List of Use No.	e Cases Case No.	Case Name	Cese Execution Procedure	Executing Status 🔗	Review States . Y	Review comments on less case results	Executing Result Remarks
		Can Rom Device Management - Access Control Device N		Executing Status 🦅 Not Passed	literare Status 🖓 @ Parcing contex	Review comments on lest case results	Executing Result Remarks
No.	Case No.		tiena			Invite commit in lot can much	Executing Result Remarks

Generating a Report

On the **Report Preview** page, generate and download a test report.

Parameter	Description
Test Report Name	Specify the name of the test report. By default, the report name is in the format of "solution name-requirement name- test report".
Test Tool	(Optional) Enter the tools used for the test, such as CodeArts PerfTest and JMeter.
Test Summary	(Optional) Enter a test summary, which will be displayed in section 3 "Verification Conclusion" of the report.
Report Generation	Click Generate Report . The system will generate a report based on the solutions, requirements, and test cases.

 Table 2-4 Parameters required for generating a report

Parameter	Description
Attachments	(Optional) The uploaded attachments will be included in the report.
Report Submission	 Action: You can choose Approve or Transfer. Email Send To: Email the report to the specified recipients. The recipients must be members in the workspace and have their email addresses associated with their accounts. Processing Description: Describe the processing process of the report.

Figure 2-20 Generating a report

		* Test Summary	0	Auto-Gr	inerate											
	慶			<u>A</u> ~	в	ΙU	÷	Ŧ	= 3	∎ ≡	H ~	Ċ	\$ \$	1 = ~	i= ~	v Ka
Worksand Management Begin Center Test Center Plans Cases Resources Issues Bournes Distances	•	Allachment	2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	time, t (1) Thi defect minor (2) Per HUAW scenar perfor (3) Sec Execut Execut Execut General Shenzhen H Interneted Upload	he fund s test ir severit issues, forman El CLOI io, the mance urity te ing0Nu ing0Se n Report Numel Cl Numel C	tion te ncludes yy.OMaj 3 for n ncc test UD CPI respon test is I curity t curity t loud Corr loud Corr loud Corr loud Corr loud Corr loud Corr loud Corr loud Corr ment for ment for	st of the jo or defenajor is : :S is us se time passed verificit of man est cas	he app int vere ectsOG issues, i ectrologies ectrologies rar, doc, rar, doc,	o and w nture s eneral and 10 simula and to simula cch tran an be curity t e scann gy Co., U gy Co., U gy Co., U docc, jpg docc, jpg	veb offic colution defects of or crit ite the p insaction released test case ied by to itdAssoci itdAssoci itdAssoci itdAssoci	es syster (SaaS/H ODefect ical issu erforma a can me d for col es, passi pols and aled Solut aled Solut aled Solut aled Solut syscress	em of High) ts are ues.) 1 ance eet somme ing ti d fou dion (S dion (S dion (S tricted)	the joi (1.1):31 indica he qua test. The ervice r rcial us he chec nd in w ass/High thas cha MostSatta	nt operati Number of ted.Onum ality stand here are si equireme se. :kOltem, N veb scanni) (1.1)-Assoc inged. Gener	ion sc of serv aber. 1 lards 1 ix test ents. T V/AOH clated F clated F clated F ach of w	The station solution (SaaS/High) (1.1), including APP and web office system function tests. This olution (SaaS/High) (1.1) is completed. vice function test cases and defects are found. Total number of fatal defects based on the The total number of open defects is DL000+3 (The DI value is 0.1 for vaming issues, 1 for for commercial use are met and can be put into commercial use. It cases in these scenarios in the joint on potention solution (SaaS/High) (1.1). In each test The CPU load and memory usage of the server are stable. No exception occurs. The term, not passed/litem, pass with conditions/litem; Vierification Passed; Wulnerabilities, Ohigh-risk vulnerabilities, Omedium-risk vulnerabilities, Ohigh-risk vulnerabilities, ClosGenerate Reports are the neor. Product Celification Test Reports are new report. which constitutions Test Reports are productions for Reports and the first and comman. reports which constitutions, and full st of product/staffirm source code). 2 Software or tools that are not authorized by the right holder; 1 RMS encrypted
		Submit Repor		Appro	/e	Trar	isfer									
		* Reviewer @)	-Select-R	eviewer(S	Select on	e or multi	iple opti	ons.)							•
		Email Send	0	Please se	lect ema	il recipier	ıls.									×
		processing description		<u>A</u> ~	В	ΙŲ	÷	F	¥ 3	= =	₩~	Ċ	\$:≡ ~	1≣ ~	- 3

NOTE

- Only one report can be generated within 5 minutes. Click **Generate Report** to obtain the latest report before download.
- If the report content is modified after report generation, you need to re-generate a report.
- In the fast solution process, the solution is verified upon report generation. In the common solution process, the report should be submitted to the specified owner for review.

3 Designing an Integrated Architecture on HaydnCSF

This section describes how to use the HaydnCSF Design Center to meet architects' architecture design requirements. The following figure is used as an example to describe how to complete the integrated architecture design using the HaydnCSF Design Center.

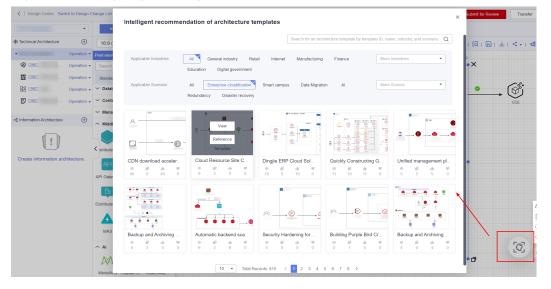


Figure 3-1 Designing an integrated architecture

Registering a Solution

HaydnCSF provides solution process management based on the Business Process Management (BPM) process engine. You can start solution design based on the process.

1. Log in to HaydnCSF and select the **Solution design** scenario.

Figure 3-2 Scenario selection



2. Click **New Solution**. On the displayed page, select **Create workspace**, specify the workspace name, and click **Confirm**.

Figure 3-3 Creating a solution

() HaydnCSF ⑦	Homepage Workspaces To-Dos ²⁰⁰ Operations Center		User Guide Current workbench Solution design *
		My Invitation	points My Badges
		-	
My Footprint ⑦	New Solution ×		View More
	* Please select a workspace Create workspace Use existing	2	
C Registration Solution Management Design More Registration	* Workspace Name Exercise wokrspace	More 👻	Registration Solution Management Design More -
Solution Design	Confirm Cancel	_	
All Pending design Pending review Workspace:	Phase: Solution design		Z Solution Design
QC			
O New Solution			

3. Enter information about the solution to be registered. You can specify yourself as the solution design owner.

Haven	Solution Registration					
HaydnCSF	Basic Information					
	* Solution Type (?)	Reference Architecture	•			
iê.	* Select Process ⑦	A Fast Solution Process	•			
rkspace						
Solutions			O work	space create	 solution desig 	n
Members						
Reports		empty project manager	Workspace Creation	Add Members		
Workspace To- Dos			Workspace Manage	Members		
Recycle Bin					Ļ	
gn Center		empty				Solution design
Center 👻		architect			Solution Management	elect an owner. 👻
ng Center						
	* Solution Name	Exercise solution				
	* Applicable Industries	Re 🕲	*			
	* Deployment Environment	Please select a deployment environ	nment.			
	Solution Version	Huawei Cloud				
	Associate CSBI	Huawei Cloud Stack				
		Huawei Cloud Stack Online				
		mongone cugeone (ico)				C

Figure 3-4 Registering a solution

4. After the solution is registered, locate it, choose **More** > **Design** in the **Operation** column to go to the solution design page.

Figure 3-5 Going to the solution design page

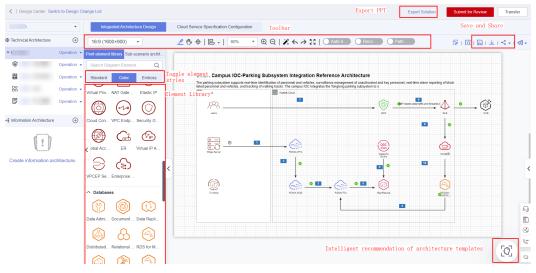
Havita		Solution Management								
HaydnCSF		Create Using Template					Solution Name	▼ -Enter-Solution Name	QC	
		Solution Name(Solution Version)	Source	Applicable Industries	Deployment Environ	Solution Phase ⑦ 🍞	Created by	Creating Time	Operation	
1.	1.	✓ 1	Inside Hayton	Logistics	Huawei Cloud	 Design completion 	ni	20: 26:15	Edit More 👻	
Workspace Management	*	× 1	Inside Hayton	Retail	Huawei Cloud	 Solution design 	ni	20; 46 <u>:26</u>	Edit More 🔺	
Solutions		~	Inside Hayton	Retail	Huawei Cloud	Design completion	р	200 31 Desig		

5. Create an integrated architecture.

Figure 3-6 New Integration Architecture

Center Swite	ch to Design Chang	ie List	Export So
	•	Integrated Architecture Design	n Cloud Service Specification Configuration
Technical Architecture	→ Operation ▼ F	New Integration Arc	chitecture
	Operation ▼	★ Architecture Name	demo No template Acceleration Field Architecture Template Copy from existing architecture Wizard Architecture Generation
Information Architecture	÷	* Deployment Environment	Huawei Clo 💿 🔺
(1) Create information and	hitecture.	Architecture Description	Huarvei Cloud Huarvei Cloud Stack Huarvei Cloud Stack Online Intelligent EdgeSite (IES)
			0/2,000





Intelligent Architecture Recommendation

The HaydnCSF Design Center can recommend the most suitable solution architecture to you based on the language you entered. You can reference the recommended architecture quickly. In the HaydnCSF Design Center, HaydnCSF intelligently recommends solutions or architectures based on your solution or architecture information. You can also enter keywords to search for and view the most matched architecture for secondary editing. After entering the Design Center, you can use intelligent architecture recommendation to search for the architecture to be referenced. If you want to delete an architecture that is referenced, right-click the architecture and choose **Clear canvas** from the shortcut menu.

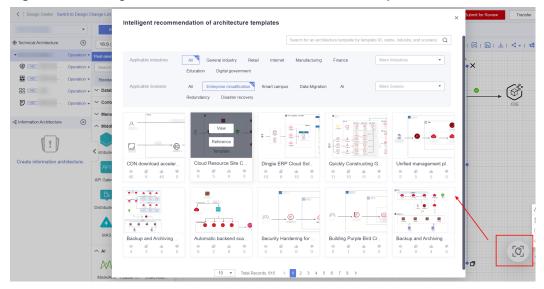
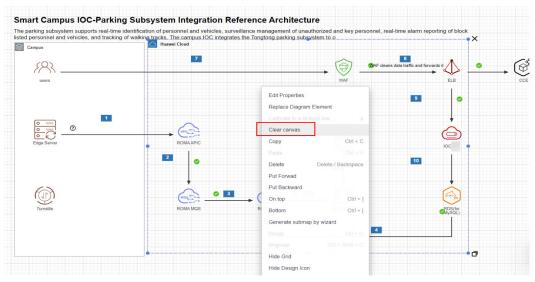


Figure 3-8 Intelligent recommendation of architecture templates

Figure 3-9 Clear canvas



Adding Diagram Elements

The HaydnCSF Design Center provides three types of diagram elements: standard, color, and emboss diagram elements. There are standard black and white diagram elements for Huawei cloud services, third-party applications and components, and auxiliary diagram elements, to meet architects' technical architecture and information architecture design requirements. Different types of services have different colors, making the architecture more beautiful and hierarchical. You can select diagram elements as needed. There are also panel and sequence number diagram elements under the preceding three types of diagram elements, and they

are used to mark the service classification, network attribute, and service flow sequence number of the architecture respectively.

- Adding a standard diagram element: Under Pent element library, select Standard and filter required icons, or enter keywords in the search box to search for required icons. Move the cursor to the diagram element to be selected and hold down the left mouse button to drag the diagram element to the canvas.
- Adding a color diagram element: The method of adding a color diagram element is the same as that of adding a standard diagram element, except selecting **Color** under **Pent element library**.
- Adding an emboss diagram element: The method of adding an emboss diagram element is the same as that of adding a standard diagram element, except selecting **Emboss** under **Pent element library**.

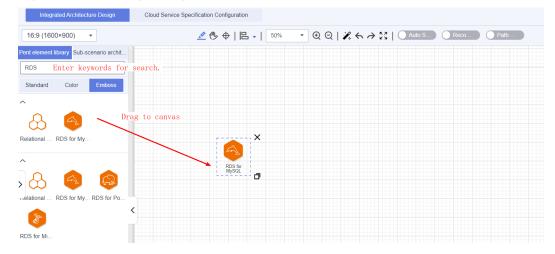


Figure 3-10 Adding a diagram element

D NOTE

HaydnCSF identifies deployment environment attributes for Huawei Cloud diagram elements. If you cannot find a diagram element, the possible cause is that the diagram element does not match the selected deployment environment. For example, DMS has only the Huawei public cloud attributes. If your current architecture uses Huawei Cloud Stack Online (HCS Online), you cannot find DMS in the diagram element list.

Adding Panel Diagram Elements

Panel diagram elements have been released in the standard and color diagram element modules. There are panel diagram elements for Huawei Cloud, region, AZ, Virtual Private Cloud (VPC), subnet, cluster, DMZ, service layer, account, Dedicated Computing Cluster (DCC), Dedicated Cloud (DeC), and Dedicated Host (DeH). In this example, a turnstile and edge server are deployed in the on-premises data center, and ROMA and DataArts Studio are deployed on Huawei Cloud.

You can also double-click a panel diagram element and modify the badge icon of the panel diagram element on the page that is displayed.

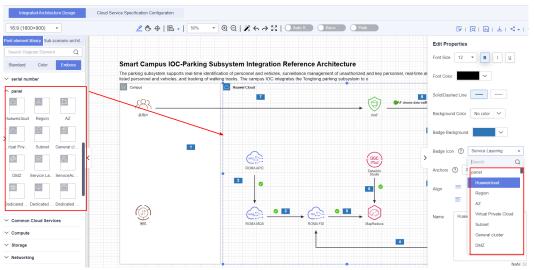


Figure 3-11 Adding a panel diagram element

After adding diagram elements, you can adjust them, including selecting diagram elements, moving diagram elements, aligning diagram elements, connecting diagram elements, beautifying diagram elements by one click (adjusting connection lines to straight lines), modifying diagram element attributes such as names and colors, replacing diagram elements, adding service flow description to a diagram element, and copy diagram elements across spaces.

Adjusting Diagram Elements

Quickly selecting and moving diagram elements

You can click a diagram element to select it. After selecting a diagram element, you can press **Crtl** and click the left mouse button to select other diagram elements. After selecting diagram elements, you can hold down the left mouse button to move the diagram elements. Or you can hold down the left mouse button and drag the mouse to quickly select diagram elements. As shown in the following figure, drag the mouse to select the area where the diagram elements are located. Release the mouse to select the diagram elements in this area. After that, hold down the left mouse button to drag the selected diagram elements.

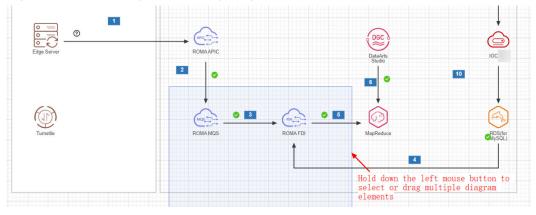


Figure 3-12 Selecting and moving diagram elements

Aligning diagram elements

Diagram elements can be aligned left, right, top, bottom, center, and middle. They can also be distributed vertically or horizontally. Press **Ctrl** and left mouse button to select diagram elements and select an alignment mode. Diagram elements and wireframes can also be aligned.

- Align Left: The selected diagram elements are aligned to the left. This mode is applicable to the scenario where diagram elements are vertically distributed.
- **Align Right**: The selected diagram elements are aligned to the right. This mode is applicable to the scenario where diagram elements are vertically distributed.
- Align Top: The selected diagram elements are aligned to the top. This mode is applicable to the scenario where diagram elements are horizontally distributed.
- Align Bottom: The selected diagram elements are aligned to the bottom. This mode is applicable to the scenario where diagram elements are horizontally distributed.
- Align Center: The middle lines of selected diagram elements are aligned vertically. This mode is applicable to the scenario where diagram elements are distributed vertically and the sizes of diagram elements are different. For example, the cloud service diagram element is aligned with the wireframe, and the cloud service diagram element is aligned with the panel diagram element.
- Align Middle: The middle lines of selected diagram elements are aligned horizontally. This mode is applicable to the scenario where diagram elements are distributed horizontally and the sizes of diagram elements are different. For example, the cloud service diagram element is aligned with the wireframe, and the cloud service diagram element is aligned with the panel diagram element.
- **Distribute Vertically**: The selected diagram elements are evenly divided in the vertical direction. The spacing between the diagram elements in the vertical direction is the same.
- **Distribute Horizontally**: The selected diagram elements are evenly divided in the horizontal direction. The spacing between the diagram elements in the horizontal direction is the same.

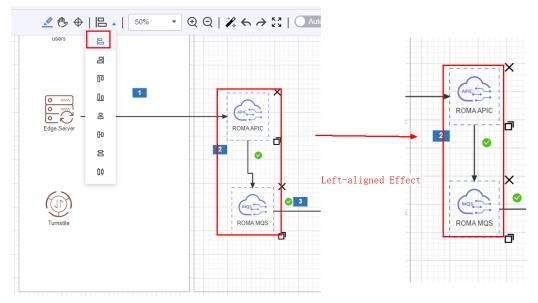


Figure 3-13 Aligning diagram elements

Modifying properties of a diagram element

- The name of a common diagram element, for example, the cloud service (ECS) diagram element, and other diagram elements (Wi-Fi), can be changed. You can double-click a diagram element to display the editing page and enter a new diagram element name.
- Auxiliary diagram elements (such as text boxes, wireframes, and circles) and panel diagram elements support the modification of the font (font size, bold, italic, and underline), font color, line style (solid or dotted line), background color, align (such as align top and align center), badge, and name.
- The font color, background color, and sequence number of the serial number diagram element can be changed. As shown in the following figure, the left part is the device side, and you can modify the information on the diagram element panel. The right part is Huawei Cloud, and you can modify the subnet information.

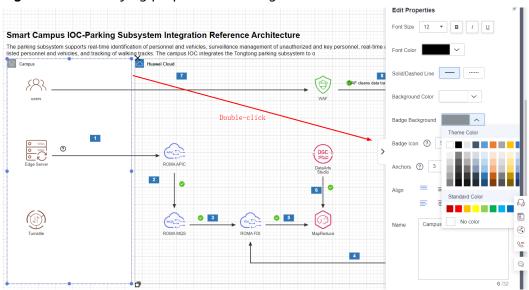
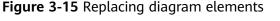
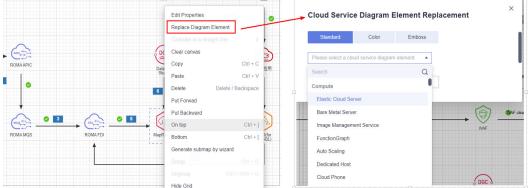


Figure 3-14 Modifying properties of a diagram element

Replacing diagram elements

If a connected diagram element needs to be replaced with another one, for example, the diagram element for RDS needs to be replaced with that for Relational Database Service (RDS) for MySQL, you can use the **Replace Diagram Element** function. After the replacement, the connection lines related to the diagram element remain unchanged. You can right-click a diagram element, choose **Replace Diagram Element** from the shortcut menu, search for the diagram element, and select the diagram element to be replaced.





Connecting Diagram Elements

You can use straight lines or polylines to connect diagram elements that will be integrated. You can select straight lines, arrows, curves, or polylines from auxiliary diagram elements. You can also select a diagram element, drag a polyline from it, and connect it to other diagram elements. As shown in the following figure, select a diagram element. The connection nodes around the diagram element are displayed. Move the mouse pointer to the point to be connected, hold down the left mouse button, and drag the connection line to the diagram element to be connected.

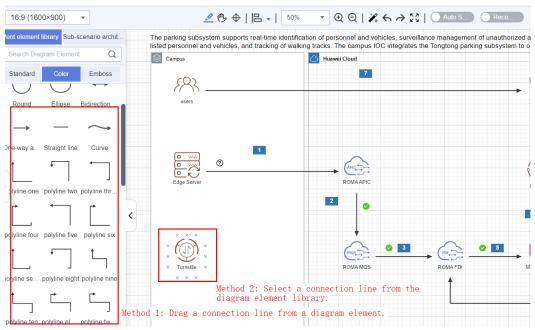
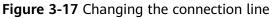


Figure 3-16 Connecting diagram elements

If the bending of the connected polyline does not meet the expectation, move the cursor to the polyline and drag it.





One-Click Optimization (Adjusting Connection Lines to Straight Lines)

If the connection line between two diagram elements is not easy on the eyes, you can use **Optimize** to beautify the architecture diagram. The **Optimize** function will adjust connection lines that have not been aligned to straight lines.

It is applicable to scenarios where diagram elements on the canvas are not aligned.

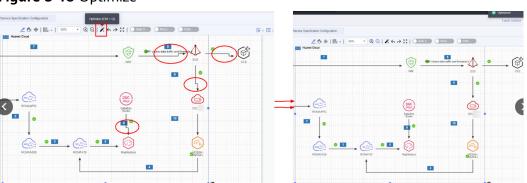


Figure 3-18 Optimize

Adding Service Flow Descriptions

After adding, modifying, and connecting diagram elements, you can add service flow descriptions for the architecture. The descriptions help clearly identify the relationships between diagram elements and the service flow direction on the architecture.

- You can double-click a connection line to add a description for it. You can move the left mouse button to adjust the position of the description on the connection line. You can also drag a text box from the diagram element library to the corresponding position to add a description.
- If you enable **Path Description** when connecting diagram elements, the designer automatically adds sequence numbers.

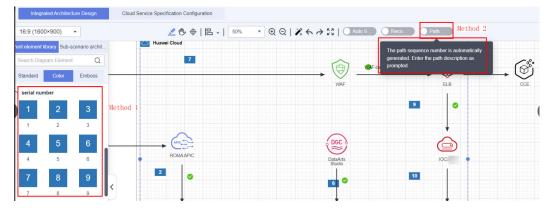


Figure 3-19 Adding the description of a service flow

Copying Diagram Elements Across Spaces

You can copy one or more diagram elements and paste them to the architecture design canvas in the current workspace or other workspaces.

- 1. Select a diagram element. To copy multiple diagram elements, hold down **Ctrl** and click the diagram elements.
- 2. Press **Ctrl+C** to copy the diagram elements. You can also right-click and choose **Copy** from the shortcut menu.
- 3. Open the target canvas and press **Ctrl+V**. You can also right-click and choose **Paste** from the shortcut menu.

D NOTE

HaydnCSF identifies deployment environment attributes for Huawei Cloud diagram elements. If the deployment environment attributes of a copied diagram element are inconsistent with those of your architecture, the diagram element fails to be saved after being pasted. In this case, delete diagram elements that do not have the deployment environment attributes of your architectures. For example, DMS has only the Huawei public cloud attributes. If you copy the DMS diagram element from the architecture in another space to your current architecture whose deployment environment is HCS Online, the current architecture cannot be saved after the DMS diagram element is pasted. In this case, delete the DMS diagram element.

Adjusting a Canvas

- On the toolbar of the canvas in the Design Center, click the zoom-in or zoomout buttons to zoom in or zoom out the canvas. You can also press **Ctrl** and scroll the mouse wheel to zoom in or zoom out the canvas.
- The canvas scale and size can be adjusted.
- You can enter the full-screen mode to focus on design.

Figure 3-20 Adjusting a canvas

16:9 (1600×900) • Canvas Scale	
	Canvas Size Zoom in/out

Quickly Moving a Canvas

On the canvas page of the Design Center, press the space bar and click the left mouse button to quickly move the canvas.

Hiding the Menu or Diagram Element Library

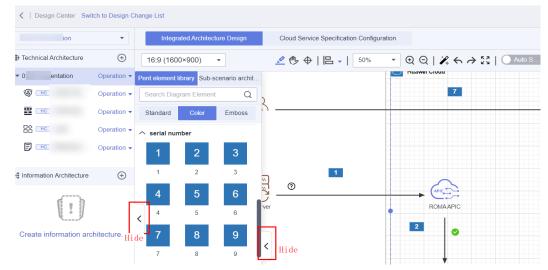


Figure 3-21 Hiding the menu or diagram element library

Checking the Design Quality in Real Time

Design rules are preset in the Design Center. The integration path connectivity is checked in real time to ensure the optimal solution design.

- Real-time check of integration paths: Integration paths can be checked in real time based on preset design rules, and check results can be provided.
- Accumulation of design rules: The Huawei Cloud solution team and service product departments will keep accumulating design rules.
- Life cycle management of design rules: The operations team updates the latest design rules and removes expired rules in a timely manner.

As shown in the following figure, after two diagram elements are connected, if there is a design rule between the two diagram elements, an icon is displayed. You can click the icon to view the detailed prompt information.

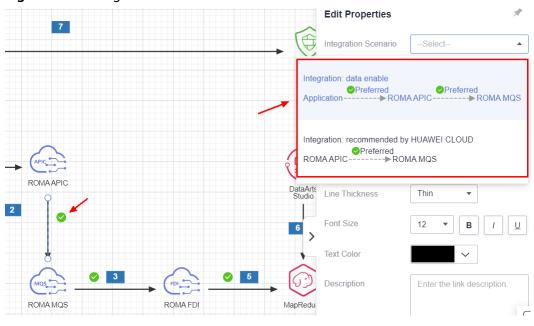


Figure 3-22 Design rules

NOTE

Only accounts that have completed real-name authentication can use design rules. For details, see **Individual Real-Name Authentication**.

Diagram Element Recommendation

You can enable diagram element recommendation. As shown in the following figure, after **Recommendation** is enabled, HaydnCSF recommends paths for diagram elements with preset design rules.

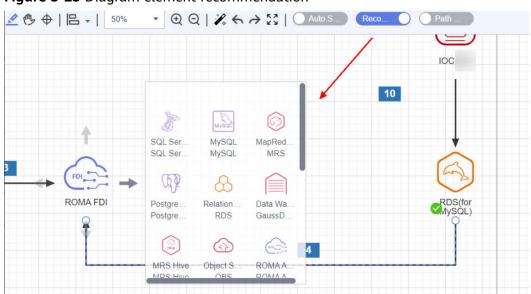


Figure 3-23 Diagram element recommendation

Identifying Different Deployment Environments

The HaydnCSF platform allows you to select more than one deployment environment and use diagram elements of different deployment environments to design the architectures. If you select multiple deployment environments, services are filtered based on the deployment environments that match the created solution and architecture, and differences between deployment environments are identified during automatic deployment.

As shown in the following figure, diagram elements have deployment environment attributes. Only diagram elements of the corresponding deployment environment can be selected during HCS Online architecture design.

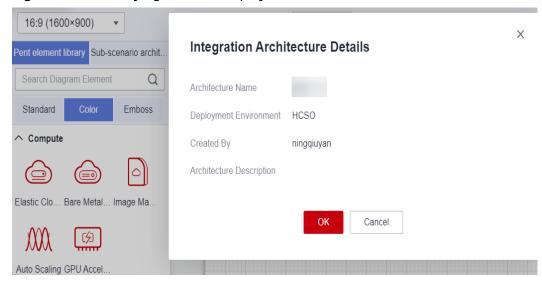


Figure 3-24 Identifying different deployment environments

Auto Save

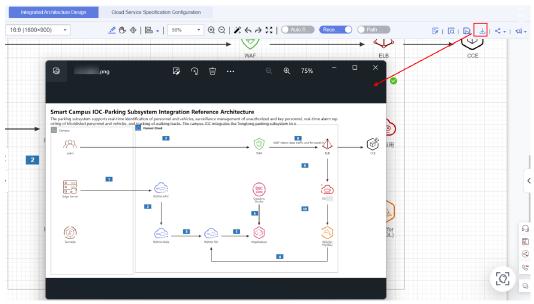
Integrated architectures are automatically saved every five minutes. During the saving, the architecture design is interrupted for a short time. You can also disable **Auto Save**.



Exporting PNG Images

You can export the designed architecture as a PNG image. On the menu bar of the canvas in the Design Center, click **Export Image**.

Figure 3-26 Exporting an image



Exporting a Solution

You can export the integrated architecture and deployment architecture as a .pptx file for demonstration.

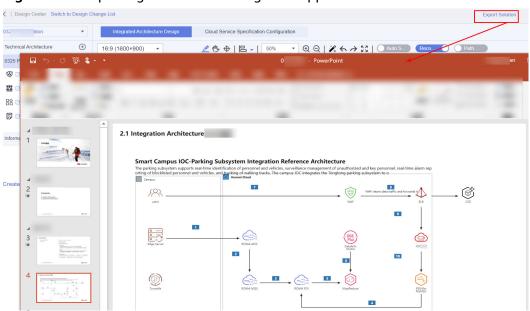


Figure 3-27 Exporting architecture design as a .pptx file

Sharing Architecture

The HaydnCSF platform allows you to share architecture design through WeLink, WeChat, and email. You can view the shared architecture without login.

Figure 3-28 Sharing a	rchitecture
-----------------------	-------------

Integrated Architecture Design	Cloud Service Specification Configuration			
:9 (1600×900) 🔹	👱 🕑 🔶 🗄 🗸 💷 🕅 🖉 🔍 🖉 🖉 🖉		Path Description	الا ب الا الا الح الح ا
				Share by WeLink Share by email
				Copy Link
	<u></u>		$\rightarrow \bigcirc$	
	RDS for MySQL	Cloud Data Migration	Object Storage Service	

Sharing architectures through WeLink

You can scan the QR code in WeLink to share designed architectures with WeLink contacts and groups or to share with WeChat contacts and groups.

Sharing architectures through email

Select **Share by email** from the architecture sharing options and enter the user's email address to share architectures with the specified email recipient.

haydn@huaweicloud.com Welcome to HaydnCSF!	
	Huawei Cloud HaydnCSF
	Dear user: Hello! Your friend: of r uynchas shared an architecture template with you. Architecture Name: ;
	BaydmCSP is a unified online solution building platform for partners on Haumei Cloud. It digitalises the solution building process and results, enables partners to design, deploy, verify, and manage solutions in online self-service mode, accelerates solution building and release, and helps partners create value through solutions.
	About HavdnCSF Learn more Immediate use Privacy statement
	This is a system mail. Do not reply.
	Huawei Cloud HaydnCSF

. . . . -• •

Sharing architectures through WeChat

You can scan the QR code with WeChat to share designed architectures with WeChat contacts and groups.

Referencing a Shared Architecture with One Click

You can view the shared architectures without logging in to HaydnCSF. To reference the shared integrated architecture, you can click **Quick Reference**, which allows you to quickly design the architecture without creating a workspace or solution. You can also click **Refer to my-space**, select the specified workspace and solution, and change the architecture name to reference to the specified workspace and solution.

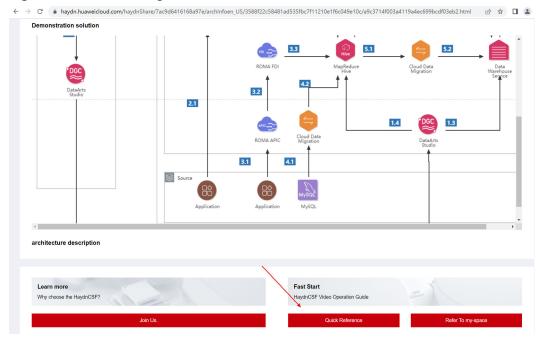


Figure 3-30 Referencing a shared architecture with one click

Releasing an Integrated Architecture

You can release the designed architectures to the Solution Acceleration Field so that other HaydnCSF users can view or reference your architectures to quickly complete their architecture design. For details about the release process, see **Releasing Architecture Template in Accelerator Field**.



Figure 3-31 Releasing an integrated architecture

4 Performing One-Stop O&M on HaydnCSF

This section describes the full process of HaydnCSF O&M Event Center, including creating a workspace, receiving alarms, and automatically triggering and transferring events.

Creating an O&M Workspace

Prerequisites

- 1. You have a Huawei Cloud account.
- 2. You are a HaydnCSF user. For details about how to become a HaydnCSF user, see **Accessing HaydnCSF**.

Log in to HaydnCSF. Click the **Workspaces** Tab and click **Create**.

Figure 4-1 Creating an O&M workspace

i HaydnCSF 💿		Homepage Workspaces To-Dos	CreateWorkspaces	
Create Al Favorites			Workspace Info	
Workspace Name 🕅	Type Solution Name	Created By Created ↓Ξ	* Workspace Name (?)	Q&M Presentation Workspace
4	O8M space	and the second s	-	
4	O&M space		\star Туре	08M +
w	O&M space		Description	O&M Presentation Workspace
<u>ب</u>	OSM space			27/1,000
<u>ب</u>	O&M space -			
	OBM space			Save Cancel

Creating a Project

- 1. In the navigation pane, choose **Business Config > Projects**.
- 2. On the **Projects** page, click **Create**. In the displayed dialog box, enter the project name, solution name, and project description, and click **OK**.

Figure 4-2 Creating a project

Haydin		Business Config / Projects				Create Project		>	×
HaydnCSF		+ Create				-	ed on the actual service requirements of the solution.	×	
		Project	Solution Name	Created ↓≡	Customer				
	ΞĘ.	~				* Project	Smart Campus Project	×	
Overview		10 - Total Records: 1				Solution Name	OperationCenter	×	
Service Tickets	*		-						
Alarm Monitoring	*					Customer Primary Account			
Business Config						Project Description	Smart Campus Project		
Projects									
Services								20/255	
Integration Configuration							OK Cancel		

Creating a Service

- 1. In the navigation pane, choose **Business Config > Services**.
- 2. On the **Services** page, click **Create**. In the displayed dialog box, enter the service name, project name, and service description, and click **OK**.

Figure 4-3 Creating a service

Hayan	Business Config / Services			Create Service	×
HaydnCSF	+ Create			oreate Service	
	Service	Project	Modified JΞ	A service is the minimum unit of enterprise business continuity O&M. When configuring transfer rules, notification policies, and user groups, you must as:	×
i.	~	1103000	mounted 4_	them with a service.	
Overview	~			* Service xx application	
Service Tickets -				* Project	
Alarm Monitoring	~			Service Description	
Business Config 🔹	10 • Total Records: 3 < 1	>			
Projects					0/255
Services					
Integration Configuration				OK Cancel	

Adding Workspace Members

- 1. In the navigation pane, choose **User Management** > **Users**.
- On the Users page, click Add. In the displayed dialog box, select My Enterprise for Enterprise. Select an IAM user for IAM Username and a user group for User Group from the drop-down lists respectively (the user group can be left unselected until it is created). Click OK.

Note: To add an IAM user that does not belong to the current Huawei Cloud account, select **Other Enterprises (Invitation)** for **Enterprise**.

Haveta		User Manage / Users				
HaydnCSF		Add ? Remov	e ⑦ Invited Users			IAM Username
н	i	AddWorkspa	ace Members			× c
Overview		* Enterprise	My Enterprise Other Enterprise	(Invitation) User not found.	0	
Service Tickets	*	✓ ★ IAM Username	-Select-IAM Username	•		7
Alarm Monitoring	Ŧ	V User Group	Select a user group.	•		6
Business Config	*	~				
Data Reports				OK Cance	el	
User Manage		10				
Users						

Figure 4-4 Adding a workspace member

3. The added IAM users can associate their mobile numbers and email addresses with their accounts and subscribe to the SMS message for alarm notification.

Adding a User Group

- 1. In the navigation pane, choose **User Management** > **User Groups**.
- 2. On the **User Groups** page, click **Add**. In the displayed dialog box, specify the group name, member, notification type (Optional. currently, group notifications can be sent through DingTalk, WeLink, and WeChat), and description. Click **OK**.

Figure 4-5 Adding a user group

C		U	Jser Manage / User Groups				Add User Gro	auc		×
-	dinCSF		+ Add			Group Notification	 A user can join multip 	-	×	
		12	Group Name	Group Notification Type	Shift Status	Policy	* Group Name	Application O&M Engineer User Group)	
Overview							Group Member	ningqiuy 💿	+ Add User	
Service Ti	ïckets	*					Group Notification Type	Select		
Alarm Mo	nitoring	•						dingding		
Business	Config	•					Description	wechat		
Data Rep									0/1,0	000
User Man		•	10 • Total Records: 5					ок	Cancel	
	Groups									
Author Manag	rity									

Figure 4-6 Registering a mobile message app

Haydn		User Manage / User Groups / Enable Mobile App
(Haydn		
HaydnCSF		f If you exit during the process, start from the first step again.
H .	ille.	Welink DingTalk WeChat
Service Tickets		Register an account. I. Register an account.
Alarm Monitoring	-	 Create an enterprise, organization, or team.
Business Config	-	
Data Reports		 Log in to the DingTak client, create a group chat, and add members.
User Manage		Add a chatbot to the group chat on a PC.
Users		
User Groups		
Authority		
Manager		
Authorization		
		2. Create an enterprise, organization, or team.

3. On the **User Groups** page, click **Authorize**. Select corresponding permissions. Click **Next**. On the displayed page, select corresponding O&M services or projects.

Haydh		User Manage / User Groups						
HaydnCSF		+ Add			Group Notification	 Select a shift 	status. • Group Nan	e • Enter the content. C
		Group Name	Group Notification Type	Shift Status	Policy	Updated By	Modified ↓Ξ	Operation
Ha	壞		-	-	-			IT Authorize Edit More -
Overview				Shifted				IT Authorize Edit More 👻
Service Tickets	*							IT Authorize Edit More -
Alarm Monitoring	÷							II Authorize Edit More -
Business Config			welink	Shifted	5			IT Authorize Edit More 🔻
Data Reports								IT Authorize Edit More 👻
User Manage		10 Total Records: 5	< 1 >					
Users								
User Groups								

Figure 4-7 Authorizing a user group

Figure 4-8 Assigning permissions to a user group

Haydn CSF	Use	User Manage / User Groups / Authorize						
Ha on		Solect Policy (2) Set Authorization Scope (3) Finish						
Overview		User Group Test New User Group Permissions						
Service Tickets	-			Enter a name or description. Q				
Alarm Monitoring	-	Permission	Туре					
	•	Customer strategy	System Policy					
Data Reports		O&M Engineer Policy	System Policy					
User Manage	^	O&M Administrator Policy	System Policy					
User Groups		10 v Total Records: 3 < 1 >						
Authority								
Manager				Cancel Next				

Figure 4-9 Configuring authorized resources

HaydnCSF		User Manage / User Groups / Authorize				
	ių.	1 Select Policy 2 Set Authorization	Scope (3) Finish			
Overview		User Group Select an authorization scheme.				
Service Tickets	•	Projects				
Alarm Monitoring	*	After authorization, users can use selected p	rojects based on their permissions.			
Business Config	*	+Create Project				Enter a project name or desc Q
Data Reports		- oronio - rojou				Enter a project name or desc. Q
User Manage		Project	Solution	Description	Created	Updated
Users		✓ 1	ance Ger	2.0)	2022/12/05 09:53:30 GMT+08:00	2022/12/05 09:53:30 GMT+08:00
User Groups						
Authority Manager						Previous Next
Authorization						

4. (Optional) On the **User Groups** page, choose **More** > **Shift**. On the displayed page, configure shifts for the user group. You can choose **Quick scheduling** or **Refined scheduling** for **Scheduling Mode**. Only on-duty members can receive alarm messages.

Haydn	U	Iser Manage / User Groups						
HaydnCSF		+ Add			Group Notification	▼ Select a shift s	tatus. • Group Name	▼ Enter the content. Q C
		Group Name	Group Notification Type	Shift Status	Policy	Updated By	Modified ↓Ξ	Operation
Ha . 📴							32:16 GMT	Authorize Edit More 🔺
Overview			-	Shifted			34:43 GMT	/ Manage / Member
	-						27:42 GMT	, Shift
	-		welink	Shifted			29:38 GMT	Delete / Manage Owner
Data Reports			-	-			54:10 GMT	Authorize Edit More 👻
User Manage		10 • Total Records: 5	< 1 >					
Users								
User Groups								

Figure 4-10 Scheduling shifts for the user group

Figure 4-11 Configuring shifts

Haydn	User Manage / L	Iser Groups / Shift				
HaydnCSF	-	scheduling mode is modified, the modified da		saved and \times		
Verview	Shift Scheduling	Quick scheduling Refined sche				
Service Tickets 🔹	Mode On-Duty	4 hours				
Alarm Monitoring •	Scheme	The on-duty personnel can select one person		ound and work overt	ime in turn according to	the shift sequence.
Business Config		Select Service Team All Members		Clear	On-Duty List	
User Manage 🔺		✔ ya jia		yε	ច	
Users			Shift Work >			
User Groups Authority			Co-duty >			
Manager						

(Optional) Configuring SLAs

- 1. In the navigation pane, choose **Business Config** > **SLAs**.
- 2. On the **SLAs** page, click **Create**. On the displayed page, specify the SLA management name and description, and project and service names. In the **Set SLA Management Policy** area, configure the SLA management rule (event response or handling SLA rules). Click **OK**.

				3				
	Haydan		Business Config / SLAs					
	HaydnCSF		+ Create				SLA Manageme •	Enter a keyword. Q
			SLA Management Name	Status	Project	Service	Modified	Operation
Hi		1		Enabled		_		Edit Delete
C	verview			-				
s	ervice Tickets	*	10 • Total Records	c1 < <mark>1</mark> >				
A	larm Monitoring	Ŧ						
В	usiness Config	*						
	Projects							
	Services							
	Integration Configuration							
	Transfer Rules							
	SLAs							

Figure 4-12 SLA management

Figure 4-13 SLA policy

Haydn	Business Config / SLAs / Create
Haydn	
HaydnCSF	Set a notification policy based on the priority and impact.
H jiệ	Set Rule
Overview	* SLA Management Name xx application P1 incident response policy
Service Tickets 🔹	SLA Management Description P1 incident response policy
Alarm Monitoring •	
Business Config 🔺	27/255
Projects	* Project
Services	* Service + Create Service
Integration Configuration	
Transfer Rules	Set SLA Management Policy + Add SLA Management Rule
SLAs	SLA Management Rule P1 I I I I I I I I I I I I I I I I I I
Data Reports	Event Response SLA 🔹 30 minutes n 🔹 🔹 sms 💿 email 💿 🔹 Group Notification ⊘ Notification Group (M 💌 🗍 🕂
User Manage 🔹 🔻	

Creating an Event Manually

- 1. In the navigation pane, choose **Service Tickets** > **Events**.
- 2. On the displayed **Events** page, click **Create Event**. In the displayed dialog box, specify the event name and description, project and service names, and event severity. Click **OK**. After an event is created, the authorized group members will receive an event notification email and respond to and handle the event.

(Hayon)	Service Tickets / Events
HaydnCSF	My To-Do Events All To-Do Events
H . (英	To respond 0
Service Tickets	Handled by Me Created by Me All To respect 0 To hands 0 To verify 0 Completed 0 All + Create Event Event Name • Q C C
Changes Change Review Configuration	To respond To handle To verify Completed All St Pri Event Name C C St Pri Event Name Created JE Respo Handli Event Sour Project Service Current Ha Tag Ty Operation
Alarm Monitoring Business Config	
Data Reports User Manage 🔹	No data available.

Figure 4-14 Event management

-				
(Hayda	Service Tickets / Events	Create Event		×
HaydnCSF	My To-Do Events			
	To respond To handle	* Work Order Type	Haydn event work order HUAWEI CLOUD Work Order	
in the second se	□ 0 □ 4	* Event Name	-Enter-	
Overview		* Event Description		
Service Tickets 🔺	Handled by Me Created by Me All			
Events				
Changes	To respond To handle To verify Completed All		[Customer resource ID, tenant ID, faulty site] [Fault Symptom and Occurrence Time]	
Change Review Configuration	St Pri Event Ticke Event Name Created JΞ Respo		[Procedure for Reproducing the Fault] [Expected Result]	
Alarm Monitoring 🔹			[Suggestions]	
Business Config 🔹				
Data Reports	No di			
User Manage 🔹 💌		Attachment	Upload Attachment	
			Attachment format restriction: .jpg,.png,.msg,.zip,.rar,.ppt,.doc,.docx,.pdf,.xisx limit 5 attachm 10M each attachment	ients,
	10 Total Records: 0	★ Project	-Select-	٠
		* Service	-Select-	• 🖓
		* Event Severity (?)	P5	. 🗉
			P1	ß
			P2	S
			P3	Q
			P4	
			- P5	

Figure 4-15 Creating an event manually

Figure 4-16 Event response

	Dense Toles / Events
HaydnCSF	My To-Do Events All To-Do Events
Overview	be respond 2 black 1 black
Service Tickets Events Chances	Handled by Mc Cristed by Mc All Cancel
Change Review Configuration	Status Priority Event Tichet ID Event Name Created JE Response Handling S Event Source 🖓 Project Service Current Handler Tag 🖓 Operation
Alarm Monitoring *	Wet. P3 CPS-EVENT-022. 2023/04/22 11/2 12 03/17-08 00 Hiss Not Set Has Not Set Manual Create Response Trag
Business Config 💌	Wait P1 OPS-EVENT-302. ors 2023/03/11/95/93.04/T-08/00 Has Over TL. In Time Manual Deale Respond Tag
Data Reports	10 • Tabla Records: 2 < 1 >
User Manage 👻	

(Optional) Creating Integration Configurations

Prerequisite: Monitoring items of related services have been configured to the monitoring source you want to use.

- 1. In the navigation pane, choose **Business Config > Integration Configurations**.
- 2. On the **Integration Configurations** page, click **Create**. On the displayed page, specify the configuration name, monitoring source and description, and project and service names. Click **Next**. On the displayed page, complete integration procedures as prompted and click **Confirm Integration**. You can view alarm messages in the **Alarm Center** of **Alarm Monitoring**.

Haven		Business Config / Integration Configuration
HaydnCSF		+Create
F 3	12	Configuration Name Monitoring Source Status Project Service Creator Modified JE Operation
Overview	7	
Service Tickets		
Alarm Monitoring		No data available.
- Business Config		
Projects		
Services		10 V Total Records: 0 < 1 >
Integration Configuration		

Figure 4-17 Integration configurations

Figure 4-18 Creating integration configurations

$\langle \cap \rangle$	Business Config / Integration Co	onfiguration / Create	
HaydnCSF	1 Create 2) Acc	cess Integration	
	Create		
H 🦉	* Configuration Name	xx Application Cloud resource monitoring X	
Overview	* Monitoring Source	Select	This field cannot be left blank.
Service Tickets 🔹	-	Huawei Cloud CES	
Alarm Monitoring 🔹	* Project	Zabbix	
Business Config	* Service	Prometheus	
Projects	Monitoring Description	Grafana	
Services		SkyWalking	
Integration		Huawei eSight	
Configuration		Huawei Cloud AOM	0/255
Transfer Rules		Next Cancel	
SLAs			

Figure 4-19 Access integration

Integration Key			
Callback URL	Status	Updated JΞ	Operation
	D Enabled	2023/05/06 16:33:56 GMT+08:00	Delete Create
Integration Procedure			
-			
Perform the following steps to integrate Cloud	d Eye. Click Confirm Integration at the bottom after comp	eleting integration on the monitoring source console.	
Perform the following steps to integrate Cloud	d Eye. Click Confirm Integration at the bottom after comp		
	d Eye. Click Confirm Integration at the bottom after comp sole, and enter "SMN" to go to the SMN conso		• Simple Message Notification (SMN)
Step 1: Log in to the Huawei Cloud cons		le.	
Step 1: Log in to the Huawei Cloud cons		le.	• Simple Message Notification (SMN)
Step 1: Log in to the Huawei Cloud cons		le.	Simple Message Notification (SMN) Create Topics Add Subscriptions
Step 1: Log in to the Huawei Cloud cons		le.	Simple Message Notification (SMN) Create Topics
Step 1: Log in to the Huawei Cloud cons		le.	Simple Message Notification (SMN) Create Topics Add Subscriptions
Step 1: Log in to the Huawei Cloud cons		le.	Simple Message Notification (SMN) Create Topics Add Subscriptions Cloud Eye Create Alarm Rule
Step 1: Log in to the Huawei Cloud cons		le.	Simple Message Notification (SMN) Create Topics Add Subscriptions Cloud Eye

Haydn CSF		Alarm Monitoring / Alarm Center									
		Uncleared Alarms Cle	ared Alarms								
Haydn Demon	Щ.										
Overview		0= ALL (16801)	₿ C	ritical (2689)		Major (14112)			Minor (0)		Info (0)
Service Tickets	•	Clear		Occ	urred: Start Date	- End Date		Alarm	Ŧ		QCĽ
Alarm Monitoring	•	Alarm	Description	Severity	Source	Project	Service		Occurred ↓≡	Conv	Operation
Alarm Center		Haydn-alarm-test	Dear hwstaff_ 100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:34:25 GMT+08:00	Yes	Clear
Business Config	×	Haydn-alarm-test	Dear hwstaff_ 100392796, the C	CRITI	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:34:24 GMT+08:00	Yes	Clear
Data Reports		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:31:16 GMT+08:00	Yes	Clear
User Manage	Ť	Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:29:39 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_ 100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:23:43 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:23:43 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 16:04:02 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 15:35:21 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 15:30:53 GMT+08:00	Yes	Clear
		Haydn-alarm-test	Dear hwstaff_100392796, the C	MAJOR	CES	1.5.2 O&M Center	Data Enab	lement	2023/05/06 15:24:21 GMT+08:00	Yes	Clear

Figure 4-20 Alarm Center

(Optional) Configuring Transfer Rules

- 1. In the navigation pane, choose **Business Config** > **Transfer Rules**.
- 2. On the **Transfer Rules** page, click **Create**. In the **Basic Info** area, specify the rule name and description, and project and service names. In the **Trigger Rule** area, configure the alarm rule, event trigger rule, and event severity. Click **OK**. HaydnCSF will automatically transfer events based on transfer rules to corresponding user group members and notify them by email.

HaydnCSF		Business Config / Transfer Rules						
	1	+Create					Monitoring Source	r a keyword. Q
	17	Rule Name	Status	Monitoring Source	Project	Service	Created	Operation
Overview			Enabled					Edit Delete
Service Tickets	*	10 Total Records: 1						
Alarm Monitoring	*	To a Total Necords. T						
Business Config	*							
Projects								
Services								
Integration Configuration								
Transfer Rules								
SLAs								
Data Donorte								

Figure 4-21 Creating a transfer rule

Figure 4-22 Configuring a transfer rule

lasic Info		
Rule Name	Converting an CES alarm to an event	
Project	1 tance Create Project	
Service	De vice +Create Service	
Description		
	0/255	
	0/255	
rigger Pule	0/ 255	
igger Rule	0/255	
	0/255	
igger Rule Rule Trigger Type		
Rule Trigger Type	Huawei Cloud CES alarm_name equals Haydn-alarm-test Haydn-alarm-test Alarm Example View Last 10 Alarms Trigger event Alarm Example View Last 10 Alarms 	
Rule Trigger Type Event Trigger Ru	Husewei Cloud CES • alarm_name • equals • Høydn-alarm-test If + Alarm Example View Last 10 Alarms Trigger event ular 10 minutes, if the rule is triggered for 2 consecutive times, an event will be sent. Image: Cloud CES • Image: Cloud CES • Image: Cloud CES • Image: Cloud CES • Alarm Example View Last 10 Alarms	
Rule Trigger Type	Huawei Cloud CES alarm_name equals Haydn-alarm-test Haydn-alarm-test Alarm Example View Last 10 Alarms Trigger event Alarm Example View Last 10 Alarms 	

Figure 4-23 Events transferred based on transfer rules

HaydnCSF	Service Tickets / Events		
- H h ();;;;	My To-Do Events	All To-Do Events	
P	To respond 0 To handle 4	To respond To handle	
Service Tickets			
Events			
Changes	Handled by Me Created by Me All		
Change Review Configuration	To respond To handle To verify Completed All	+ Create Event Vame	Ľ
Alarm Monitoring 🔹	St Pr Event Tick Event Name Created J⊟	Respo Handli Event Source 🏹 Project Service Current Ha Tag 🏹 Sc	. (
Business Config 🔹	Pe P5 OPS-EVEN Converting CES alar 2023/02/27 17:48:38 GMT+08:1	0 Has O Has N Regular Create 1 hr	÷
Data Reports	Co P5 OPS-EVEN Converting CES alar 2023/02/24 23:33:41 GMT+08:	0 Has O Has N Regular Create 1	E
User Manage 👻	Pe P5 OPS-EVEN Converting CES alar 2022/12/09 15:12:29 GMT+08:1	0 In Time Has N Regular Create 1 hr	F
	Co P4 OPS-EVEN RDS Resource Monit 2022/12/09 15:06:57 GMT+08:	0 Has N Has N Manual Create 1 5	£

Handling an Event

- 1. In the navigation pane, choose **Service Tickets** > **Events**.
- 2. On the **Events** page, locate the event and click **Response** in the **Operation** column.
- 3. Transfer the event to others: The current handler specified by the transfer rule can go to the event details page and click **Transfer**.

Figure 4-24 Event response

Import My To-Do Events All To-Do Events Import To transme Import Import To transme Import To transme	
Oververy 2 2 1 Respond	
Service Totels A	
Events Created by Me All Created by Me All Created by Me All Created by Me Q Congresses Q Al Q C	C
Company Roome - Status Provetly Event Market D: Event Name Created JE Response Handling S., Event Source IV Project Service Current Handler Tag IV Operation	
Outgoing Weit P3 OPS-EVENT-202 202304/23 11:29 12 04T1-08:00 Heis Not Seit Manual Create Ting	
Builters Confg Wat FH OP5-EVENT-302 cms 2023/3/01 19:933 GMT-88:00 Has Over FL In Time Manual Create Respond Tig	
Cula Reports 10 v Tabla Recents 2 < >	

- 4. Handle: Click **Handle** in the **Operation** column or the event name. In the displayed dialog box, enter the event reasons and solution.
- 5. Priority: Go to the event details page to change the priority.
- 6. Major event handling: Initiate a major event handling meeting for P1-P3 level events (P1-P3 level events indicate that services are unavailable).

Figure 4-25 Event handling

HaydnCSF	Service Tickets / Events / RDS Resource M	Details Ionitoring Exceeds the Threshol	d Completed			
Hay n 🚝	Basic Info					
Overview	Created	2022/12/09 15:06:57 GMT+08:00	Durat	ation	0Day0Hour0Minute58Second	
Service Tickets	Response SLA	Has Not Set	Hand	dling SLA	Has Not Set	
Events	Project	1. stance	Priori	rity ⑦	P4	
Changes	Event Ticket ID	OPS-EVENT-2022120900004	Curre	ent Handler	-	
Change Review Configuration	Satisfaction	**** 5	Servi	rice	Dat	vice
Alarm Monitoring	Event Source	Manual Create	Servi	ice Description		
Business Config 🔹	Tag		Ticke	et Attachment Info		
Data Reports	A Event Descript	ion				
User Manage 🔹 🔻	RDS Resource Moni	toring Exceeds the Threshold				
	✓ Cause					
	✓ Solution					
	Event Updates	Alarms				
	Time J⊟	Updates		V	erification Description	
	2023/01/19 23:00:00	GMT+08:00 The event has triggered aut	tomatic verification.			
	Time J⊟	Updates	tomatic verification.	V	erification Description	