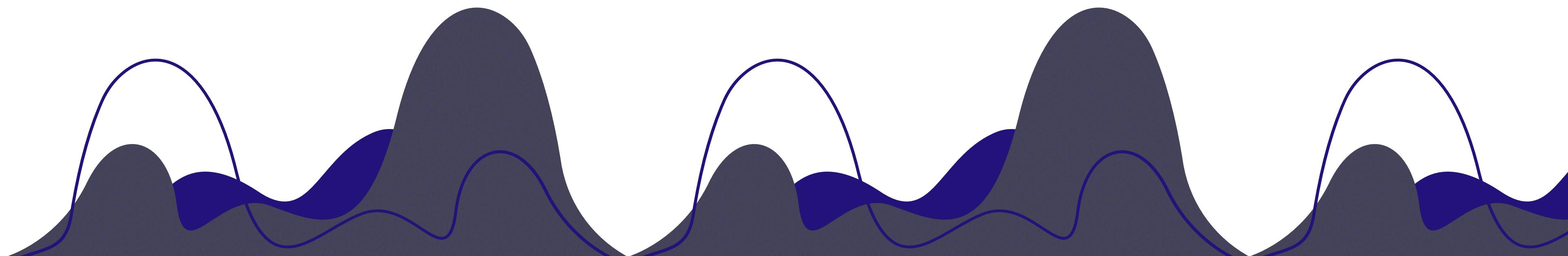


# MaaS Portal

## 관리자 메뉴얼



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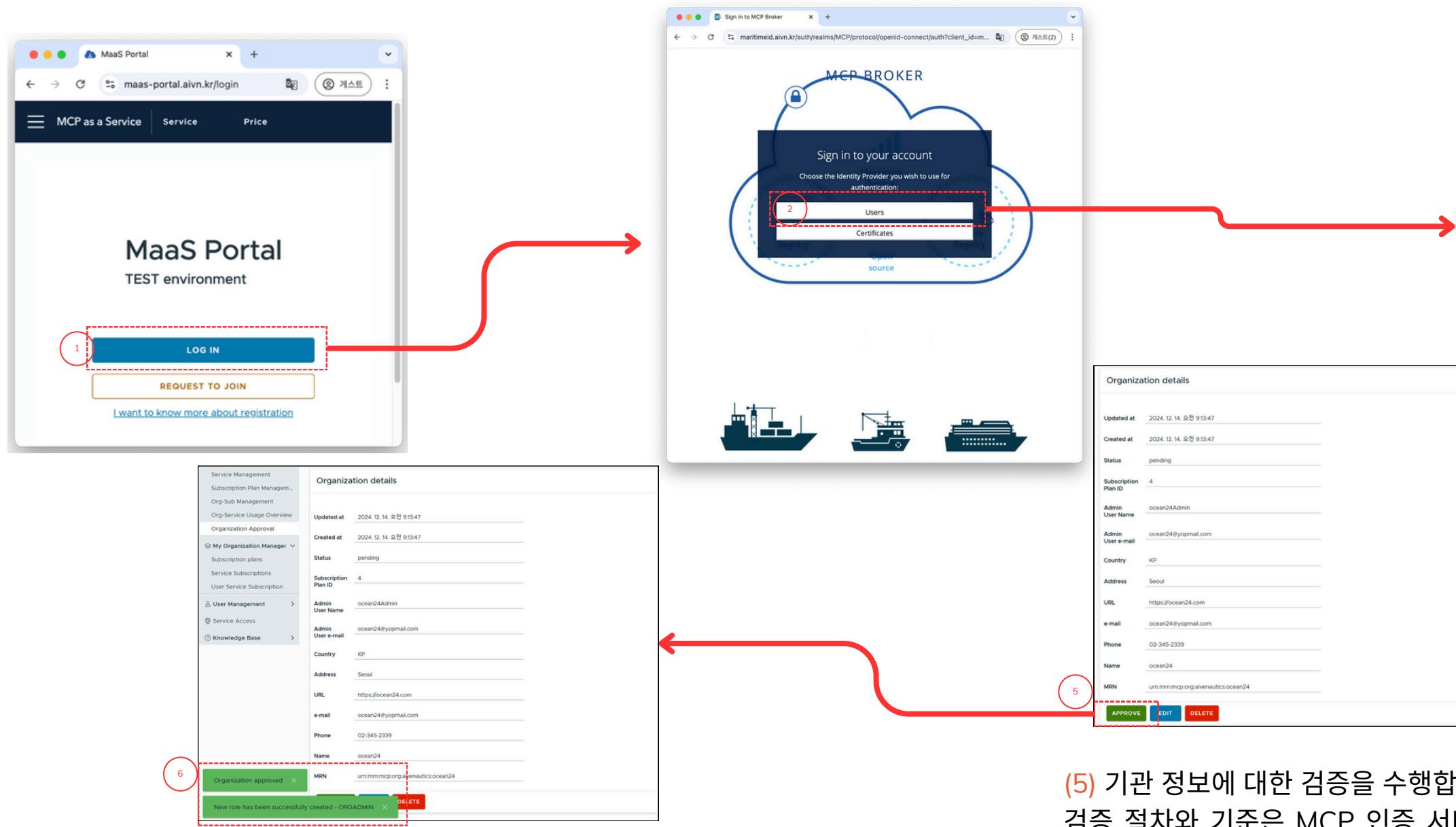
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# 1. 가입 심사

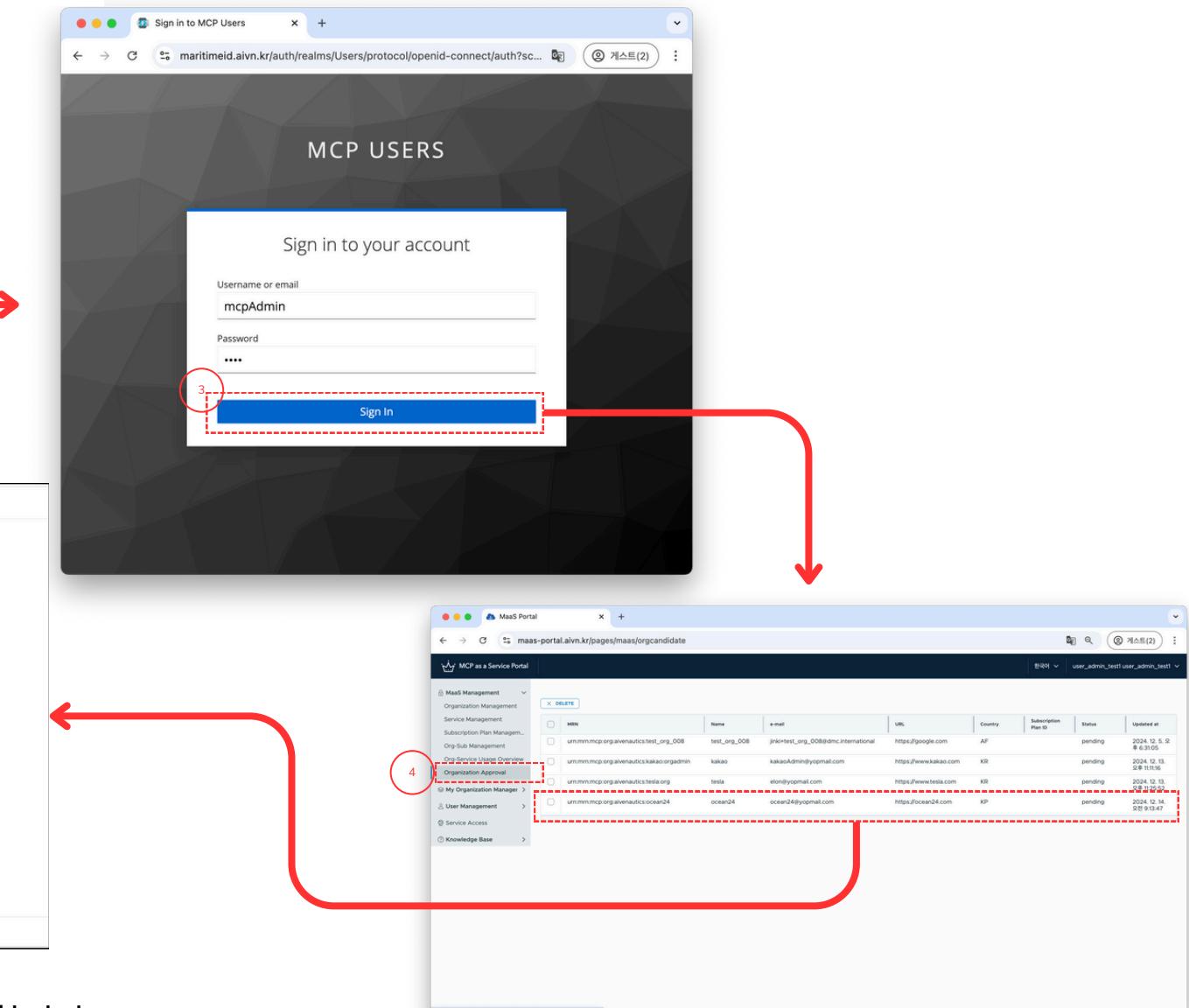
## a. 가입 승인

- (1) 기관 인증을 진행하기 위해 로그인 절차를 진행합니다. (2) maas-portal 관리자 로그인 방법을 선택합니다.  
>> "LOGIN IN"을 클릭  
>>"MCP BROKER "화면에서 "Users"를 클릭



(6) 기관 인증절차 완료 메시지를 확인합니다.

- (3) maas-portal 관리자 로그인 정보를 입력합니다.  
>> "Sign in to your account"화면에서 "Sign in" 클릭



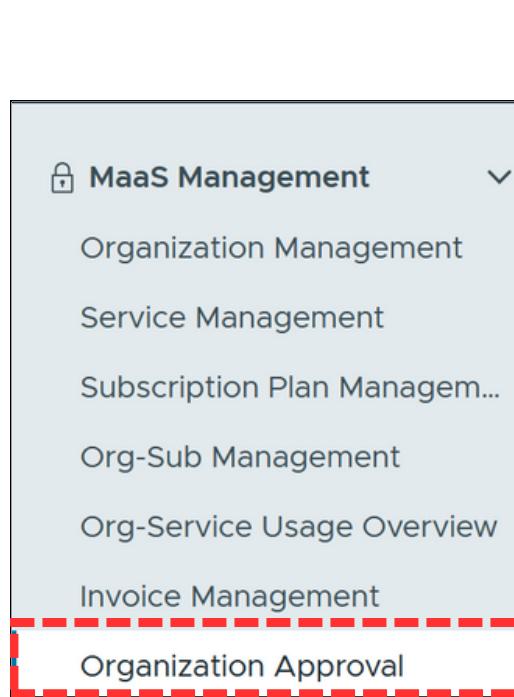
- (5) 기관 정보에 대한 검증을 수행합니다.  
검증 절차와 기준은 MCP 인증 서비스 제공자의 정책을 따르게 됩니다.  
>> "Organization details" 화면에서 "APPROVE" 클릭

- (4) Maas Management>Organization Approval  
메뉴에서 관리자는 수신된 기관 정보를 확인합니다.  
>> "Organization Approval"화면에서 기관 클릭

# 1. 가입 심사

## c. 가입 거부

(1) MaaS Management > Organization Approval 메뉴에서  
관리자는 수신된 가입 신청 정보를 확인합니다.



The screenshot shows the MaaS Management sidebar with several options: MaaS Management, Organization Management, Service Management, Subscription Plan Management, Org-Sub Management, Org-Service Usage Overview, Invoice Management, and Organization Approval. The Organization Approval option is highlighted with a red dashed box.

The main area displays a table of organization approval requests:

	Name	e-mail	URL	Country	Subscription Plan ID	Status	Updated at
<input type="checkbox"/>	MRN						
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:test_org_008	test_org_008	jinki+test_org_008@dmc.international	https://google.com	AF	pending	2024. 12. 5. 오후 6:31:05
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:hmm:org_admin	hmm	hmmAdmin@yopmail.com	https://www.hmm.com	KR	pending	2024. 12. 14. 오후 4:10:31
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:kakao:orgadmin	kakao	kakaoAdmin@yopmail.com	https://www.kakao.com	KR	pending	2024. 12. 13. 오후 11:11:16
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:tesla:org	tesla	elon@yopmail.com	https://www.tesla.com	KR	pending	2024. 12. 13. 오후 11:25:52
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:nhn:org	nhn	nhnadmin@yopmail.com	https://www.nhn.com	KR	pending	2024. 12. 14. 오후 1:48:00
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:jombom	Jombom	jinki+jombom@dmc.international	https://google.com	BD	pending	2024. 12. 14. 오후 3:59:42
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:sk-shipping:org_admin	sk	skAdmin@yopmail.com	https://www.sk-shipping.com	KR	pending	2024. 12. 14. 오후 4:14:20
<input type="checkbox"/>	urn:mrn:mcp:org:aivenautics:awesome:org	Katniss Everdeen	katniss@yopmail.com	https://awesome.com	GR	pending	2024. 12. 14. 오후 4:43:17

Organization details

심사기준에 부합하지 않은 경우 가입을 거부할 수 있음

Updated at	2024. 12. 14. 오후 4:43:17
Created at	2024. 12. 14. 오후 4:43:17
Status	pending
Subscription Plan ID	5
Admin User Name	katniss
Admin User e-mail	katniss@yopmail.com
Country	GR
Address	awesome place
URL	https://awesome.com
e-mail	katniss@yopmail.com
Phone	010-5455-6789
Name	Katniss Everdeen
MRN	urn:mrn:mcp:org:aivenautics:awesome:org

**APPROVE** **EDIT** **DELETE**

## 2. 가입 조직 관리

### a. 조직(기관) 삭제

(1) maas-portal 관리자가 등록된 조직(기관)을 삭제할 수 있는 기능입니다.

>> "MaaS Management > Organization Management" 화면에서 삭제할 조직(기관)을 선택하고 "DELETE" 클릭

The screenshot shows the MaaS Management interface with the 'Organization Management' menu selected. In the main table, the row for 'test\_org\_005' is highlighted with a red dashed box. A red arrow points from this row to the second table below, which shows the organization list after the deletion. A green box at the bottom of the second table indicates a successful deletion.

MRN	Name	Country	Updated at	Status
urn:mrn:mcp:org:aivenautics:test_org1	test_org1	AF	2024. 12. 3. 오후 6:24:30	approved
urn:mrn:mcp:org:aivenautics:test_org_004	test_org_004	AF	2024. 12. 4. 오후 8:59:52	approved
<input checked="" type="checkbox"/> urn:mrn:mcp:org:aivenautics:test_org_005	test_org_005	AF	2024. 12. 4. 오후 9:27:06	approved
urn:mrn:mcp:org:aivenautics:test_org_006	test_org_006	AF	2024. 12. 5. 오후 6:14:20	approved
urn:mrn:mcp:org:aivenautics:ocean24	ocean24	KP	2024. 12. 14. 오전 11:12:33	approved
urn:mrn:mcp:org:aivenautics:aiven	aiven	KR	2024. 12. 6. 오후 10:56:28	approved
urn:mrn:mcp:org:aivenautics:naver	naver	KR	2024. 12. 12. 오전 10:38:53	approved
urn:mrn:mcp:org:aivenautics:aivn	Aivenautics	KR	2024. 12. 13. 오후 8:22:21	approved
urn:mrn:mcp:org:aivenautics:aive	aive1	KR	2024. 12. 13. 오후 8:22:48	approved

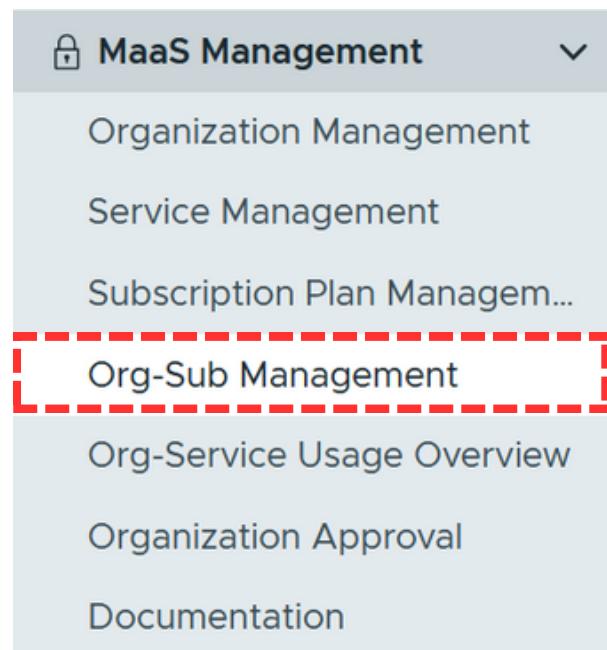
MRN	Name	Country	Updated at	Status
urn:mrn:mcp:org:aivenautics:test_org1	test_org1	AF	2024. 12. 3. 오후 6:24:30	approved
urn:mrn:mcp:org:aivenautics:test_org_004	test_org_004	AF	2024. 12. 4. 오후 8:59:52	approved
urn:mrn:mcp:org:aivenautics:test_org_006	test_org_006	AF	2024. 12. 5. 오후 6:14:20	approved
urn:mrn:mcp:org:aivenautics:ocean24	ocean24	KP	2024. 12. 14. 오전 11:12:33	approved
urn:mrn:mcp:org:aivenautics:aiven	aiven	KR	2024. 12. 6. 오후 10:56:28	approved
urn:mrn:mcp:org:aivenautics:naver	naver	KR	2024. 12. 12. 오전 10:38:53	approved
urn:mrn:mcp:org:aivenautics:aive	aive1	KR	2024. 12. 13. 오후 8:22:48	approved
urn:mrn:mcp:org:aivenautics:jambam	Jambam	AF	2024. 12. 14. 오후 4:02:01	approved
urn:mrn:mcp:org:aivenautics:jimbim	Jimbim	AO	2024. 12. 14. 오후 6:04:16	approved
urn:mrn:mcp:org:aivenautics:toss	Toss	KR	2024. 12. 14. 오후 6:41:34	approved
urn:mrn:mcp:org:aivenautics:jembem	Jembem	AG	2024. 12. 14. 오후 8:42:47	approved
urn:mrn:mcp:org:aivenautics:ms	MicroSoft	US	2024. 12. 14. 오후 9:59:41	approved
space-x	space-X	US	2024. 12. 14. 오후 11:28:01	approved
space-y	Aivenautics	KR	2024. 12. 15. 오전 5:45:19	approved

## 2. 가입 조직 관리

### b. 구독 정보 추가

(1) maas-portal 관리자가 운영상 발생하는 이슈에 대응하기 위해서 조직(기관)의 구독 정보를 추가하는 기능입니다.

>> "MaaS Management > Org-Sub Management" 메뉴에서 구독 정보를 확인할 조직(기관)을 선택



	Organization Name	Subscription Plan ID	Start Date	End Date	Subscription Status	Updated At
<input type="checkbox"/>	test_org_006	6	2024,12,5	2025,1,5	active	2024. 12. 5. 오후 6:14:21
<input type="checkbox"/>	Aivenautics	5	2024,12,1	2024,12,11	active	2024. 12. 5. 오후 10:57:39
<input type="checkbox"/>	aina	5	2024,12,9	2025,1,9	active	2024. 12. 9. 오전 10:20:43
<input type="checkbox"/>	naver	4	2024,12,12	2025,1,12	active	2024. 12. 12. 오전 10:38:54
<input type="checkbox"/>	Toss	4	2024,12,12	2025,1,12	active	2024. 12. 12. 오전 11:07:29
<input type="checkbox"/>	aiven	4	2024,12,5	2025,1,5	active	2024. 12. 12. 오후 7:17:21

(2) 조직(기관)의 상세 정보를 확인

Orgsubscription details

Updated At	2024. 12. 12. 오전 10:38:54
Created At	2024. 12. 12. 오전 10:38:54
Subscription Status	active
End Date	12/1/2025
Start Date	12/12/2024
Subscription Plan ID	Small companies (4)
Organization Name	naver
ID	6

**EDIT** **DELETE**

	Organization Name	Subscription Plan ID	Start Date	End Date	Subscription Status	Updated At
<input type="checkbox"/>	test_org_006	6	2024,12,5	2025,1,5	active	2024. 12. 5. 오후 6:14:21
<input type="checkbox"/>	Aivenautics	5	2024,12,1	2024,12,11	active	2024. 12. 5. 오후 10:57:39
<input type="checkbox"/>	aina	5	2024,12,9	2025,1,9	active	2024. 12. 9. 오전 10:20:43
<input type="checkbox"/>	naver	4	2024,12,12	2025,1,12	active	2024. 12. 12. 오전 10:38:54
<input type="checkbox"/>	Toss	4	2024,12,12	2025,1,12	active	2024. 12. 12. 오전 11:07:29
<input type="checkbox"/>	aiven	4	2024,12,5	2025,1,5	active	2024. 12. 12. 오후 7:17:21

(3) maas-portal 관리자는 조직(기관) 구독을 추가합니다.

New Orgsubscription

End Date	05/14/2025
Start Date	12/16/2024
Subscription Plan ID	Small companies (4)
Organization ID	space-X (9ced5a70-eb7a-4a42-9261-ecdd60cb0e28)

**SUBMIT** **RESET**

Edit Orgsubscription

Subscription Status	Active
End Date	MM/DD/YYYY
Start Date	MM/DD/YYYY
Subscription Plan ID	Small companies (4)
Organization ID	Enterprise (6) Mid-size (5)

**SUBMIT** **RESET** **CANCEL**

(3) maas-portal 관리자는 신규 조직(기관)의 정보를 입력합니다.

>> SUBMIT 클릭

\*구독 플랜 선택

## 2. 가입 조직 관리

### b. 구독 정보 변경/삭제

(1) maas-portal 관리자가 운영상 발생하는 이슈에 대응하기 위해서 조직(기관)의 구독 정보를 변경/삭제할 수 있습니다.

>> "MaaS Management > Org-Sub Management" 메뉴에서 구독 정보를 확인할 조직(기관)을 선택

MaaS Management sidebar menu items include: Organization Management, Service Management, Subscription Plan Management, **Org-Sub Management** (highlighted with a red dashed box), Org-Service Usage Overview, Organization Approval, and Documentation.

The table lists organization subscriptions:

Organization Name	Subscription Plan ID	Start Date	End Date	Subscription Status	Updated At
test_org_006	6	2024.12.5	2025.1.5	active	2024. 12. 5. 오후 6:14:21
Aivenautics	5	2024.12.1	2024.12.11	active	2024. 12. 5. 오후 10:57:39
aina	5	2024.12.9	2025.1.9	active	2024. 12. 9. 오전 10:20:43
naver	4	2024.12.12	2025.1.12	active	2024. 12. 12. 오전 10:38:54
Toss	4	2024.12.12	2025.1.12	active	2024. 12. 12. 오전 11:07:29
aiven	4	2024.12.5	2025.1.5	active	2024. 12. 12. 오후 7:17:21

(2-1) 삭제할 조직(기관)의 구독 정보를 선택 후 **DELETE** 클릭

The table lists organization subscriptions, with the 'Toss' row selected (highlighted with a blue background). A green message box at the bottom left says "Delete success".

Page navigation: 1 2

Organization Name	Subscription Plan ID	Start Date	End Date	Subscription Status	Updated At
naver	4	12/12/2024	12/1/2025	active	2024. 12. 12. 오전 10:38:54
aiven	4	5/12/2024	5/1/2025	active	2024. 12. 12. 오후 7:17:21
aive1	5	13/12/2024	13/1/2025	active	2024. 12. 13. 오후 8:22:48
Jimbitm	4	14/12/2024	14/1/2025	active	2024. 12. 14. 오후 3:35:27
Jambam	6	14/12/2024	14/1/2025	active	2024. 12. 14. 오후 4:02:03
Jembem	4	14/12/2024	14/1/2025	active	2024. 12. 14. 오후 8:42:46
Aivenautics	4	1/12/2024	11/12/2024	active	2024. 12. 14. 오후 9:24:02
MicroSoft	4	14/12/2024	14/1/2025	active	2024. 12. 14. 오후 9:41:43
<input checked="" type="checkbox"/> Toss	4	12/12/2024	12/1/2025	active	2024. 12. 14. 오후 9:51:31
space-X	4	14/12/2024	14/1/2025	active	2024. 12. 14. 오후 11:16:15

The form allows editing subscription details:

- Subscription Status: Active
- End Date: MM/DD/YYYY
- Start Date: MM/DD/YYYY
- Subscription Plan ID: Small companies (4)
- Organization ID: Enterprise (6), Mid-size (5)

Buttons: SUBMIT (highlighted with a red dashed box), RESET, CANCEL.

Message: Registration success

(3) **SUBMIT** 버튼을 클릭해 수정된 구독 정보를 반영

# 3. 사용자 관리

## a. 사용자 추가/삭제

(1) 기관의 사용자를 추가합니다.

>> "User Management > User Management" 화면에서 "ADD" 클릭

The screenshot shows the 'User Management' section of the application. On the left, there's a sidebar with options: 'User Management' (selected and highlighted with a red dashed box), 'Cert Management', 'User Service Subscription', 'User Service Usage Overview', and 'User Service Usage'. The main area displays a table of users with columns: MRN, Username, and Updated At. There are two buttons at the top right of the table: '+ ADD' (highlighted with a red box) and 'X DELETE'. Below the table are two small blue buttons labeled '1' and '2'.

New User

Role  
User

Role assigned to the user

Username  
patt

Unique username of the user

Email  
patt.matt@aivenautics.com

Contact email address of the user

MRN  
urn:mrn:mcp:user:aivenautics:aivn:patt

Unique Maritime Resource Name of the user

**SUBMIT** **RESET**

Registration success X

This screenshot shows the 'New User' configuration page. It includes fields for Role (set to User), Username (patt), Email (patt.matt@aivenautics.com), and MRN (urn:mrn:mcp:user:aivenautics:aivn:patt). At the bottom are 'SUBMIT' and 'RESET' buttons, with 'SUBMIT' highlighted by a red box. A green success message 'Registration success' is shown at the bottom.

(1-1) 사용자 목록에서 삭제할 사용자를 선택 후 **DELETE**를 클릭해

사용자를 삭제할 수 있습니다.

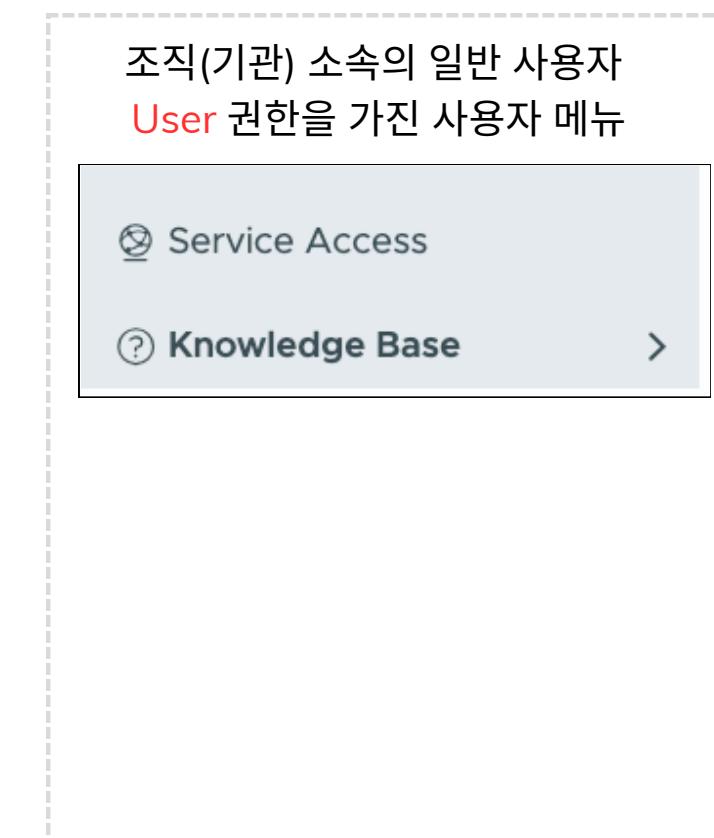
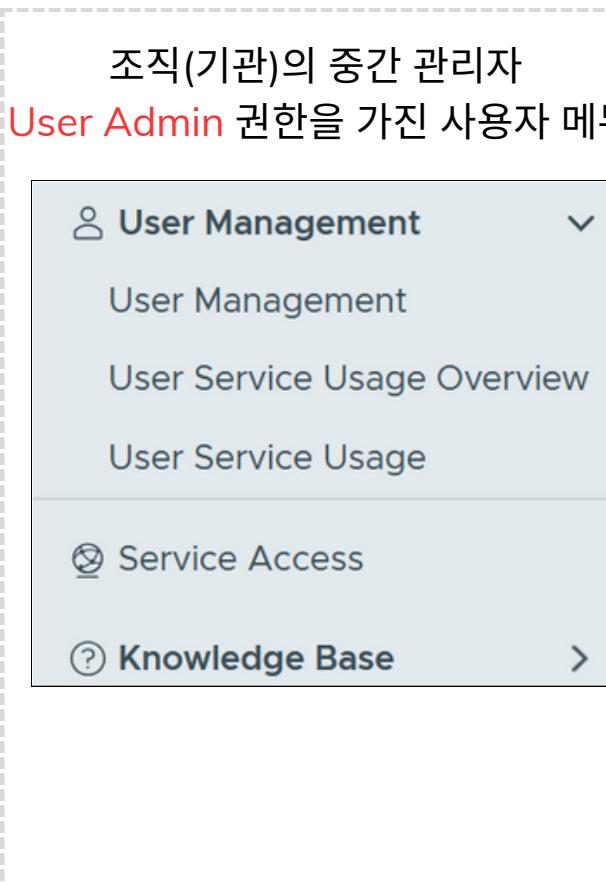
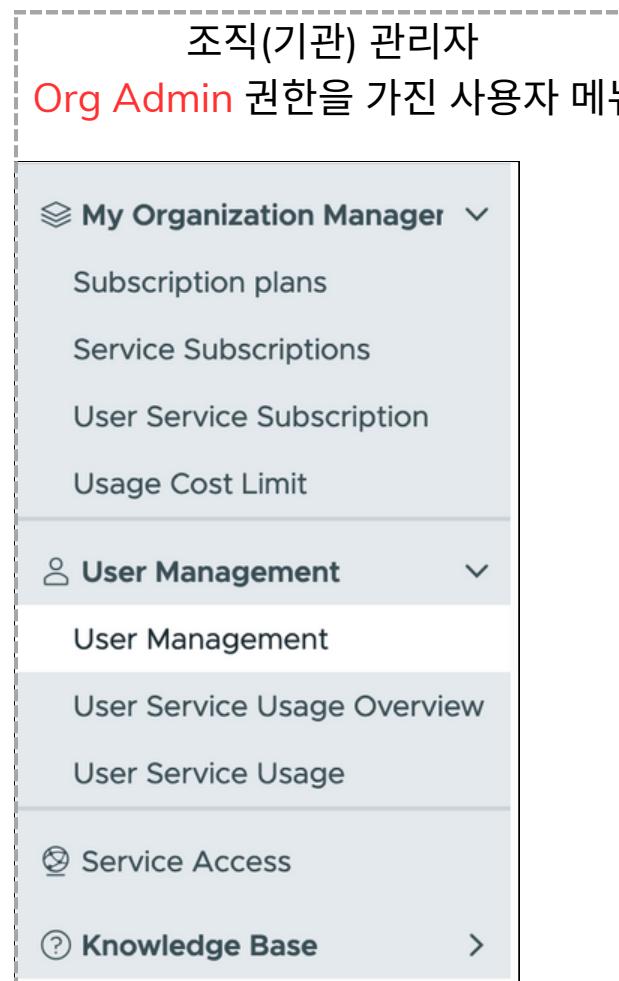
The screenshot shows the 'User Management' interface again. A user row is selected, indicated by a checked checkbox in the MRN column. The 'X DELETE' button in the top right corner of the user list table is highlighted with a red box. At the bottom, a green success message 'Delete success' is displayed.

(2) 기관 사용자 정보를 입력합니다.

>> "New User"화면에서 "SUBMIT" 클릭

### 3. 사용자 관리

#### b. 권한별 역할 (상위 관리자는 하위 관리자의 권한을 포함한다)



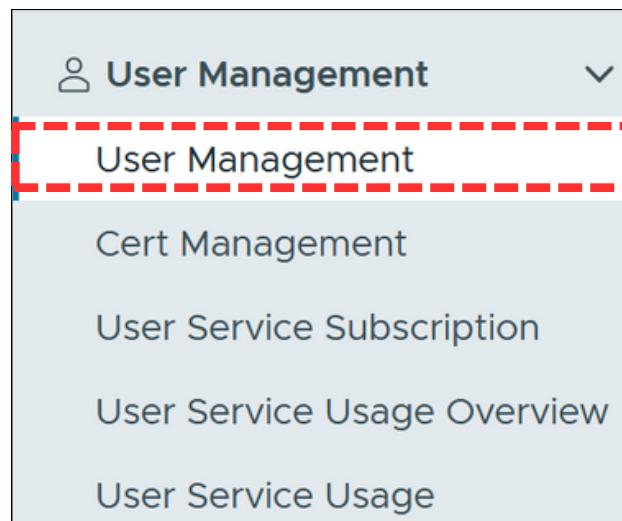
- 조직에 허용되는 모든 관리의 메뉴가 접근 가능합니다.
  - My Organization Manager
  - User Management
  - Service Access
  - User Manual
- 조직의 사용자 관리와 서비스 메뉴가 접근 가능합니다.
  - User Management
  - Service Access
  - User Manual
- 조직의 일반 사용자에게 허용된 서비스 메뉴만 접근 가능합니다.
  - Service Access(ChatSea)
  - User Manual

# 3. 사용자 관리

## c. 권한 할당/변경

(1) 기관 내 사용자의 권한을 변경할 수 있습니다.

>> "User Management > User Management" 화면에서 권한을 변경할 사용자 클릭



MRN	Username	Updated At
urn:mrn:mcp:user:aivenautics:aivn:testadmin	testAdmin	2024. 12. 10. 오전 10:28:02
urn:mrn:mcp:user:aivenautics:aivn:lee	changuunn	2024. 12. 14. 오후 11:30:34

(2) "User Details" 화면에서 EDIT 버튼 클릭

User details form fields: Updated At (2024. 12. 11. 오후 8:08:07), Created At (2024. 12. 11. 오후 8:08:07), Role (User), Username (changuunn), Email (chanyun.lee@aivenautics.com), MRN (urn:mrn:mcp:user:aivenautics:aivn:lee), Organization ID (Aivenautics (5b6aac12-babb-4f37-bb44-74e44d23a282)), and ID (4afb99b1-e8cc-4167-9ccb-1638ee768708). The 'EDIT' button is highlighted.

(3) "Edit User" 화면에서 권한(Role) 변경 후 SUBMIT 버튼 클릭

Edit User form fields: Role (User), Username (changuunn), Email (chanyun.lee@aivenautics.com), and MRN (urn:mrn:mcp:user:aivenautics:aivn:lee). The 'SUBMIT' button is highlighted.

Edit User form fields: Role (User Admin), Username (changuunn), Email (chanyun.lee@aivenautics.com), and MRN (urn:mrn:mcp:user:aivenautics:aivn:lee). The 'SUBMIT' button is highlighted.

User details form fields: Updated At (2024. 12. 14. 오후 11:30:34), Created At (2024. 12. 11. 오후 8:08:07), Role (UserAdmin), Username (changuunn), Email (chanyun.lee@aivenautics.com), MRN (urn:mrn:mcp:user:aivenautics:aivn:lee), Organization ID (Aivenautics (5b6aac12-babb-4f37-bb44-74e44d23a282)), and ID (4afb99b1-e8cc-4167-9ccb-1638ee768708). The 'EDIT' button is highlighted.

### 3. 사용자 관리

#### d. 사용자 상세 조회/수정

(1) 선택한 사용자의 상세 정보를 조회합니다.

>> "User Management > User Management" 화면에서 사용자 클릭

The screenshot shows the User Management interface with three main panels:

- Left Panel:** A sidebar with a title "User Management" and five options: "User Management" (highlighted with a red dashed box), "Cert Management", "User Service Subscription", "User Service Usage Overview", and "User Service Usage".
- Middle Panel:** A table titled "User Management" with columns: MRN, Username, and Updated At. It lists three users: "testAdmin" (MRN: urn:mrn:mcp:user:aivenautics:aivn:testadmin, Updated At: 2024.12.10. 오전 10:28:02) and "changyunn" (MRN: urn:mrn:mcp:user:aivenautics:aivn:lee, Updated At: 2024.12.14. 오후 11:30:34). The row for "changyunn" is highlighted with a red dashed box and has a red arrow pointing to the "User details" panel.
- Right Panel:** A detailed view of "User details" for the selected user "changyunn". The fields include: Updated At (2024.12.11. 오후 8:08:07), Created At (2024.12.11. 오후 8:08:07), Role (User), Username (changyunn), Email (changyun.lee@aivenautics.com), MRN (urn:mrn:mcp:user:aivenautics:aivn:lee), Organization ID (Aivenautics (5b6aac12-babb-4f37-bb44-74e44d23a282)), and ID (4afb99b1-e8cc-4167-9ccb-1638ee768708). At the bottom are "EDIT" and "DELETE" buttons, with a red dashed box around them and a red arrow pointing from the "User Management" table.

**Edit User** modal is also visible at the bottom left, showing the current values for Role, Username, Email, and MRN, along with "SUBMIT", "RESET", and "CANCEL" buttons.

**(2) 사용자의 정보를 수정합니다.**  
>> "User Details" 화면에서 EDIT 버튼 클릭 > 수정 후 SUBMIT 버튼을 클릭해 수정된 정보 반영

## 4. 서비스 관리

### a. 서비스 목록 조회

(1) maas-portal 관리자가 서비스를 관리하고 목록을 조회합니다.

>> MaaS Management > Service Management 화면에서 등록된 서비스 목록 확인

The screenshot shows the MaaS Management interface with the 'Service Management' module selected. The main area displays a table of registered services with columns: Name, Unit Price, Active Status, and Updated At. There are also 'ADD' and 'DELETE' buttons at the top.

	Name	Unit Price	Active Status	Updated At
<input type="checkbox"/>	S-124	0	true	2024. 12. 5. 오후 10:12:46
<input type="checkbox"/>	Chat	0.2	true	2024. 12. 6. 오후 11:32:20
<input type="checkbox"/>	Automatic Route Planning	0.5	true	2024. 12. 11. 오후 5:12:24
<input type="checkbox"/>	MCP Certificate service	10	false	2024. 12. 11. 오후 6:55:30

## 4. 서비스 관리

### b. 서비스 추가 / 삭제

(1) maas-portal 관리자가 서비스를 추가할 수 있습니다.

>> MaaS Management > Service Management 화면에서 ADD 버튼 클릭

(2) 추가할 서비스의 비용, 이름, 설명, 관리 기관(조직) 등을 입력 후 SUBMIT 버튼을 클릭해 등록합니다.

MaaS Management sidebar menu:

- Organization Management
- Service Management** (highlighted with a red dashed box)
- Subscription Plan Management
- Org-Sub Management
- Org-Service Usage Overview
- Organization Approval
- Documentation

Service Management list table:

	Name	Unit Price	Active Status	Updated At
<input type="checkbox"/>	S-124	0	true	2024. 12. 5. 오후 10:12:46
<input type="checkbox"/>	Chat	0.2	true	2024. 12. 6. 오후 11:32:20
<input type="checkbox"/>	Automatic Route Planning	0.5	true	2024. 12. 11. 오후 5:12:24
<input type="checkbox"/>	MCP Certificate service	10	false	2024. 12. 11. 오후 6:55:30

+ ADD X DELETE

(2-1) 삭제할 서비스를 선택 후 DELETE 버튼을 클릭합니다.

Service Management list table showing deletion:

	Name	Unit Price	Active Status	Updated At
<input type="checkbox"/>	S-124	0	true	2024. 12. 5. 오후 10:12:46
<input type="checkbox"/>	Chat	0.2	true	2024. 12. 6. 오후 11:32:20
<input type="checkbox"/>	Automatic Route Planning	0.5	true	2024. 12. 11. 오후 5:12:24
<input type="checkbox"/>	MCP Certificate service	10	false	2024. 12. 11. 오후 6:55:30
<input checked="" type="checkbox"/>	Whale Are You	0.1	false	2024. 12. 15. 오후 4:05:25

+ ADD X DELETE

Delete success X

New Service registration form:

Unit	\$	Unit of the service cost
Unit Price	0.1	Price per unit of the service
Description	Whale Location Sharing Service	Brief details about the service
Name	Whale Are You	Name of the service
Organization ID	Aivenautics (5b6aac12-babb-4f37-bb44-74e44d23a282)	UUID of the organization owning the service

SUBMIT RESET

Registration success X

Service Management list table after registration:

	Name	Unit Price	Active Status	Updated At
<input type="checkbox"/>	S-124	0	true	2024. 12. 5. 오후 10:12:46
<input type="checkbox"/>	Chat	0.2	true	2024. 12. 6. 오후 11:32:20
<input type="checkbox"/>	Automatic Route Planning	0.5	true	2024. 12. 11. 오후 5:12:24
<input type="checkbox"/>	MCP Certificate service	10	false	2024. 12. 11. 오후 6:55:30
<input checked="" type="checkbox"/>	Whale Are You	0.1	false	2024. 12. 15. 오후 4:05:25

# 5. 사용량 보고서

## a. 사용자 서비스 사용량 / 금액 확인

(1) 기관 관리자 메뉴에서 기관 사용자 별 서비스 사용량(내역)을 확인합니다.

>> "User Management > User Service Usage" 화면에서 "Usage Amount" 확인

The screenshot shows the 'User Management' sidebar with 'User Service Usage Overview' highlighted. The main area displays a table titled 'Usage Amount' with columns: User Name, Service Name, Usage Amount, Usage Date, and Updated At. A red dashed box highlights the 'Usage Amount' column. The data includes entries for 'changyun' and 'kp-tester001' using 'Automatic Route Planning' and 'Chat' services.

User Name	Service Name	Usage Amount	Usage Date	Updated At
changyun	Automatic Route Planning	16.94	2024,12,12	2024. 12. 12. 오전 10:01:19
changyun	Automatic Route Planning	14.52	2024,12,12	2024. 12. 12. 오전 10:02:23
changyun	Chat	1	2024,12,12	2024. 12. 12. 오전 10:08:24
changyun	Chat	1	2024,12,12	2024. 12. 12. 오전 11:56:22
kp-tester001	Chat	1	2024,12,12	2024. 12. 12. 오전 11:57:19
kp-tester001	Chat	1	2024,12,12	2024. 12. 12. 오전 11:57:25
changyun	Chat	1	2024,12,12	2024. 12. 12. 오후 12:06:05
changyun	Chat	1	2024,12,12	2024. 12. 12. 오후 12:06:46
changyun	Automatic Route Planning	15.68	2024,12,12	2024. 12. 12. 오후 12:09:16
changyun	Automatic Route Planning	16.21	2024,12,12	2024. 12. 12. 오후 12:10:41

(2) 기관 관리자 메뉴에서 기관 전체 사용자 서비스 사용량을 확인합니다.

>> "User Management > User Service Usage Overview" 화면 이동

The screenshot shows the 'User Management' sidebar with 'User Service Usage Overview' highlighted. The main area displays a summary table with the total fee of '176.17 USD'. It includes columns for Username, ARP - usageAmount, ARP - fee, Chat - usageAmount, Chat - fee, and Total fee. Red circles numbered 3, 4, and 5 highlight specific values: 79.02, 1.7999999999999998, and 41.30999999999995 respectively.

Username	ARP - usageAmount	ARP - fee	Chat - usageAmount	Chat - fee	Total fee
changyun	79.02	39.51	9	1.7999999999999998	41.30999999999995
kp-tester001	47.66	23.83	24	4.800000000000002	28.63
urn:mrn:mcp:user:aivenautics:aivn:jinki	131.04999999999998	65.52499999999999	38	7.600000000000001	73.125
user_admin_test1	1	0.5	41	8.200000000000001	8.700000000000001
user admin user admin 2	48.81	24.405	0	0	24.405

# 5. 사용량 보고서

## b. 조직(기관) 서비스 사용량 / 금액 확인

(1) maas-portal 관리자가 조직(기관) 별 서비스 사용량 및 금액을 확인할 수 있습니다.

>> MaaS Management > Org-Service Usage Overview 화면 이동

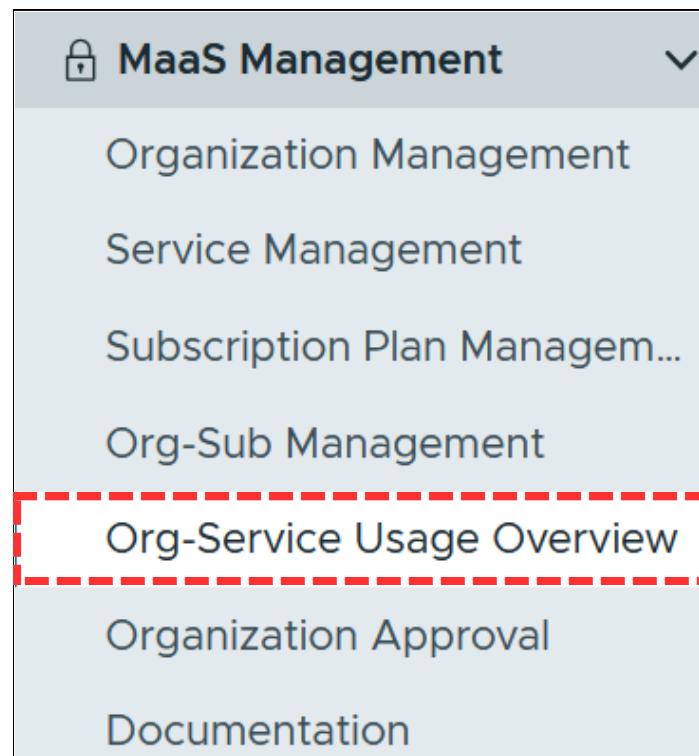
(2) ARP 서비스 사용량

(3) ARP 서비스 금액

(4) Chat 서비스 사용량

(5) Chat 서비스 금액

(6) 총 금액



<input type="checkbox"/> Organization	ARP - usageAmount <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">2</span>	ARP - fee <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">3</span>	Chat - usageAmount <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">4</span>	Chat - fee <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">5</span>	Total fee <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">6</span>
<input type="checkbox"/> posco	139	69.5	13	2.6	72.1
<input type="checkbox"/> hana	105	52.5	7	1.4	53.9
<input type="checkbox"/> kb	88	44	5	1	45
<input type="checkbox"/> Toss	485.6	242.79	57	11.4	254.19
<input type="checkbox"/> Jembem	91	45.5	24	4.8	50.3
<input type="checkbox"/> skOn	120	60	7	1.4	61.4
<input type="checkbox"/> space-X	315.3	157.65	66	13.2	170.85
<input type="checkbox"/> Aivenautics	2802.46	1401.23	320	64	1465.23
<input type="checkbox"/> mirae	273	136.5	61	12.2	148.7
<input type="checkbox"/> daehan	392.65	196.33	40	8	204.33

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