


```
7 }
```

• RES) Example

```
1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": ""
5 }
```

2. MasterECUKey

키 프로비저닝(MasterECUKey) POST “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> • Master ECU Key : EcuMasterKey • Supplier ECU symmetric Identity Key : SupplierSymmKey • SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
KeyID	String	O	Key ID (스펙문서 참고) (0x1)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)
Records	Json	결과 값 (M1~M5, KeySyncValue)

• REQ) Example

```
1 {
2   "ProvisioningType": "EcuMasterKey",
3   "KeyID": "1",
4   "EcuID": "01020304050607080102030400030001000000000000000000002"
5 }
```

• RES) Example

```
1   "Records": {
2     "KeyID": "1",
3     "M1": "0003000100000000000000000000000211",
4     "M2": "83a6957a7c21c35c9bf9083c09c728fa8ebb3965805bfe8f9fd6b88b7fc8df4",
5     "M3": "1eae814952a1ad6f9efc2e0c20378c3d",
6     "M4": "00030001000000000000000000000002119d65cbf811941c12318183fce05f9880",
7     "M5": "adf3b9cb4e14a5cb60899f1a4a59feb2"
8   },
9   "ResultMessage": "",
10  "ResultReason": "",
11  "ResultStatus": "Success"
12 }
```

키 프로비저닝 주입 결과(MasterECUKey) PUT “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
ResultMessage	String	O	결과 메시지
ResultStatus	String	O	결과 상태 (Success, OperationFailed)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)

• REQ) Example

```

1 {
2   "ProvisioningType": "SupplierSymmKey",
3   "EcuID": "0102030405060708010203040001001D0102030405060708090A0B",
4   "ResultMessage": "",
5   "ResultStatus": "Success"
6 }

```

• RES) Example

```

1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": ""
5 }

```

3. SupplierSymmKey

키 프로비저닝(SupplierSymmKey) POST “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
KeyID	String	O	Key ID (스펙문서 참고) (0xD)

RESPONSE BODY		
---------------	--	--

field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)
Records	Json	결과 값 (M1~M5, KeySyncValue)

• REQ) Example

```

1 {
2   "ProvisioningType": "SupplierSymmKey",
3   "KeyID": "D",
4   "EcuID": "010203040506070801020304000300010000000000000000000002"
5 }

```

• RES) Example

```

1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": "",
5   "Records": {
6     "M1": "0001001d0102030405060708090a0b01",
7     "M2": "c723139a9975ad356707be66689de4cb4be6b9564b06bdc220c3b5328677d02b",
8     "M3": "0ccae90a3fc9b4ea06a578f58710d488",
9     "M4": "0001001d0102030405060708090a0b01b472e8d8727d70d57295e74849a27917",
10    "M5": "0ee0763aec1f41ce57bdd33bf9fe6e36"
11  },
12 }

```

키 프로비저닝 주입 결과(SupplierSymmKey) PUT “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> • Master ECU Key : EcuMasterKey • Supplier ECU symmetric Identity Key : SupplierSymmKey • SecOC Cluster Key : SecOckKey
EcuID	String	O	ECU ID (스펙문서 참고)
ResultMessage	String	O	결과 메시지
ResultStatus	String	O	결과 상태 (Success, OperationFailed)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)

• REQ) Example

```

1 {
2   "ProvisioningType": "SupplierSymmKey",
3   "EcuID": "0102030405060708010203040001001D010203040506070809A0B",
4   "ResultMessage": "",
5   "ResultStatus": "Success"

```

- RES) Example

```

1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": ""
5 }

```

키 SyncValue 요청(SupplierSymmKey) POST "/app/automotive/supplierKeySyncValue"

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)
Records	Json	결과 값 (KeySyncValue, Challenge)

- REQ) Example

```

1 {
2   "ProvisioningType": "SupplierSymmKey",
3   "KeyID": "D",
4   "EcuID": "010203040506070801020304000300010000000000000000000002"
5 }

```

- RES) Example

```

1 {
2   "Records": {
3     "KeyID": "",
4     "KeySyncValue": "e3a45734090e095e647ad21477120710",
5     "Challenge": "f6daf9cb30419105c64d27857da69f6b"
6   },
7   "ResultMessage": "",
8   "ResultReason": "",
9   "ResultStatus": "Success"
10 }

```

키 SyncValue 검증 결과(SupplierSymmKey)PUT "/app/automotive/supplierKeySyncValue"

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey

			<ul style="list-style-type: none"> Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
ResultMessage	String	O	결과 메시지
ResultStatus	String	O	결과 상태 (Success, OperationFailed)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)

• REQ) Example

```

1 {
2   "ProvisioningType": "SupplierSymmKey",
3   "EcuID": "0102030405060708010203040001001D010203040506070809A0B",
4   "ResultMessage": "",
5   "ResultStatus": "Success"
6 }

```

• RES) Example

```

1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": ""
5 }

```

4. SecOCKey

키 프로비저닝(SecOCKey) POST “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
KeyID	String	O	Key ID (스펙문서 참고) (0x4~0xC)
SupplierSecretKey	String	O	협력사 SecretKey
Counter	String	O	Counter
Challenge	String	O	Constant Value 16byte

RESPONSE BODY		
field	type	description

ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)
Records	Json	결과 값 (M1~M5, KeySyncValue)

• REQ) Example

```

1 {
2   "ProvisioningType": "SecOckKey",
3   "EcuID": "0102030405060708010203040003000100000000000000000002",
4   "KeyID": "4"
5 }

```

• RES) Example

```

1 {
2   "Records": {
3     "KeyID": "5",
4     "M1": "0003000100000000000000000000000251",
5     "M2": "16d4ca7b74b48dafefdae7ade95eacbe5851dad0b3c5f6b319b2b12ccb4242a3",
6     "M3": "91ec2cf7188e7749cde1890067415d65",
7     "M4": "0003000100000000000000000000000251ffddafb77dcc9cf295a0fe25ade4f8ad",
8     "M5": "6715a001327a4149e8b6af665e188b22"
9   },
10  "ResultMessage": "",
11  "ResultReason": "",
12  "ResultStatus": "Success"
13 }

```

키 프로비저닝 주입 결과(SecOckKey) PUT “/app/automotive/supplierKeyProvisioning”

REQUEST BODY			
field	type	required	description
ProvisioningType	String	O	Provisioning Type <ul style="list-style-type: none"> Master ECU Key : EcuMasterKey Supplier ECU symmetric Identity Key : SupplierSymmKey SecOC Cluster Key : SecOckKey
EcuID	String	O	ECU ID (스펙문서 참고)
KeyID	String	O	SHE Key Slot ID (SecOC Cluster Key's ID = 0x4~0xC)
ResultMessage	String	O	결과 메시지
ResultStatus	String	O	결과 상태 (Success, OperationFailed)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)

• REQ) Example

```

1 {
2   "ProvisioningType": "SecOckKey",
3   "EcuID": "0102030405060708010203040001001D010203040506070809A0B",
4   "KeyID": "4",

```


			<ul style="list-style-type: none"> • Master ECU Key : EcuMasterKey • Supplier ECU symmetric Identity Key : SupplierSymmKey • SecOC Cluster Key : SecOCKey
EcuID	String	O	ECU ID (스펙문서 참고)
KeyID	String	O	SHE Key Slot ID (SecOC Cluster Key's ID = 0x4~0xC)
ResultMessage	String	O	결과 메시지
ResultStatus	String	O	결과 상태 (Success, OperationFailed)

RESPONSE BODY		
field	type	description
ResultStatus	String	결과상태(Success,OperationFailed)
ResultReason	String	결과코드(결과상태 Success → blank)
ResultMessage	String	결과메시지(결과상태 Success → blank)

• REQ) Example

```

1 {
2   "ProvisioningType": "SecOCKey",
3   "EcuID": "0102030405060708010203040001001D0102030405060708090A0B",
4   "KeyID": "4",
5   "ResultMessage": "",
6   "ResultStatus": "Success"
7 }

```

• RES) Example

```

1 {
2   "ResultStatus": "Success",
3   "ResultReason": "",
4   "ResultMessage": ""
5 }

```

5. 오류 메시지 및 대응 방법

메시지	설명	대응 방법	비고
The [] is required.	필수 입력 속성이나 타입 데이터가 없거나 빈 값	필수 입력 속성이나 타입을 입력 ex> The KeyID is required. KeyID = ""; → KeyID = "4";	
The [] is not registerd.	해당 속성의 데이터가 KMS 에 등록 되지 않음	해당 속성이나 타입이 KMS 에 등록되었는지 확인 후 없으면 등록 ex> The SupplierID is not registerd. SupplierID="3D" → SupplierID="0D" // 실제 등록된 SupplierID 으로 ex> EcuType="09" → EcuType="01" (위 처럼 NKM에 설정된 제어기로 설정하거나 NKM 에 제어기 추가 등록) < 웹콘솔의 '협력사 & 제어기' 메뉴 화면 > 	

keyID Parsing Err : []	keyID 형식이 잘못됨	KeyID을 형식에 맞게 수정 ex> KeyID = "ㅎㄷ"; → KeyID = "C";	
The KeyID must be less than or equal to D(0x0D).	keyID 범위 (0~D) 를 벗어난 입력 값	KeyID을 범위에 맞게 수정 ex> KeyID = "3C"; → KeyID = "C";	
Phase = ([Prod] or [Dev]): []	Phase 값이 Prod, Dev 둘 중 하나로 입력되지 않음	Phase 값을 Prod, Dev 둘 중 하나로 입력 Phase = "Test"; → Phase = "Prod";	
The SupplierSecretKey:[] is not registerd.	OEM 으로부터 SupplierSecretKey 를 공유받지 않음	OEM 으로부터 SupplierSecretKey 를 공유 요청 및 키 를 공유음	