




Started	Mon Oct 09 2023 07:20:58 GMT+0000 (Coordinated Universal Time)
Finished	Mon Oct 09 2023 07:21:22 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Mythx-Cli-0.7.3
Main Source File	Contracts/AxelarReceiver.Sol

DETECTED VULNERABILITIES

 HIGH	 MEDIUM	 LOW
0	0	0

ISSUES

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
13 | if (stringBytes.length != 42 || stringBytes[0] != '0' || stringBytes[1] != 'x') revert InvalidAddressString();
14 |
15 | for (uint256 i = 2; i < 42; ++i) {
16 |     stringByte = uint8(stringBytes[i]);
```

UNKNOWN Arithmetic operation "--" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
16 | stringByte = uint8(stringBytes[i]);
17 |
18 | if ((stringByte >= 97) && (stringByte <= 102)) stringByte -= 87;
19 | else if ((stringByte >= 65) && (stringByte <= 70)) stringByte -= 55;
20 | else if ((stringByte >= 48) && (stringByte <= 57)) stringByte -= 48;
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
17 |  
18 | if ((stringByte >= 97) && (stringByte <= 102)) stringByte -= 87;  
19 | else if ((stringByte >= 65) && (stringByte <= 70)) stringByte -= 55;  
20 | else if ((stringByte >= 48) && (stringByte <= 57)) stringByte -= 48;  
21 | else revert InvalidAddressString();
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
18 | if ((stringByte >= 97) && (stringByte <= 102)) stringByte -= 87;  
19 | else if ((stringByte >= 65) && (stringByte <= 70)) stringByte -= 55;  
20 | else if ((stringByte >= 48) && (stringByte <= 57)) stringByte -= 48;  
21 | else revert InvalidAddressString();
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
21 | else revert InvalidAddressString();  
22 |  
23 | addressNumber |= uint160(uint256(stringByte) << ((41 - i) << 2));  
24 | }
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
37 | stringBytes[1] = 'x';
38 |
39 | for (uint256 i; i < 20; ++i) {
40 |     stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |     stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
38 |
39 | for (uint256 i; i < 20; ++i) {
40 |     stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |     stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
38 |
39 | for (uint256 i; i < 20; ++i) {
40 |     stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |     stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
39 | for (uint256 i; i < 20; ++i) {  
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];  
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];  
42 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
39 | for (uint256 i; i < 20; ++i) {  
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];  
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];  
42 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
11 | uint8 stringByte;  
12 |  
13 | if (stringBytes.length != 42 || stringBytes[0] != '0' || stringBytes[1] != 'x') revert InvalidAddressString();  
14 |  
15 | for (uint256 i = 2; i < 42; ++i) {
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
11 | uint8 stringByte;
12 |
13 | if (stringBytes.length != 42 || stringBytes[0] != '0' || stringBytes[1] != 'x') revert InvalidAddressString();
14 |
15 | for (uint256 i = 2; i < 42; ++i) {
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
14 |
15 | for (uint256 i = 2; i < 42; ++i) {
16 |     stringByte = uint8(stringBytes[i]);
17 |
18 |     if ((stringByte >= 97) && (stringByte <= 102)) stringByte -= 87;
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
34 | bytes memory stringBytes = new bytes(42);
35 |
36 | stringBytes[0] = '0';
37 | stringBytes[1] = 'x';
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
35 |
36 |   stringBytes[0] = '0';
37 |   stringBytes[1] = 'x';
38 |
39 |   for (uint256 i; i < 20; ++i) {
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
38 |
39 |   for (uint256 i; i < 20; ++i) {
40 |     stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |     stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 |   }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
38 |
39 |   for (uint256 i; i < 20; ++i) {
40 |     stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |     stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 |   }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
38 |
39 | for (uint256 i; i < 20; ++i) {
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
39 | for (uint256 i; i < 20; ++i) {
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
39 | for (uint256 i; i < 20; ++i) {
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

node_modules/@axelar-network/axelar-gmp-sdk-solidity/contracts/libs/AddressString.sol

Locations

```
39 | for (uint256 i; i < 20; ++i) {
40 |   stringBytes[2 + i * 2] = characters[uint8(addressBytes[i] >> 4)];
41 |   stringBytes[3 + i * 2] = characters[uint8(addressBytes[i] & 0x0f)];
42 | }
```