

**File Path : frameworks/base/core/java/android/net/NetworkUtils.java**

**Line No: 317**

```
public static void maskRawAddress(byte[] array, int prefixLength) {
    if (prefixLength < 0 || prefixLength > array.length * 8) {
        throw new RuntimeException("IP address with " + array.length +
            " bytes has invalid prefix length " + prefixLength);
    }
}
```

Violations in: **throw new RuntimeException("IP address with " + array.length +**  
**" bytes has invalid prefix length " + prefixLength);**

AST of **throw new RuntimeException("IP address with " + array.length +**  
**" bytes has invalid prefix length " + prefixLength);**

ThrowStatement [13002+135]

EXPRESSION

ClassInstanceCreation [13008+128]

> (Expression) type binding: java.lang.RuntimeException

> method binding: RuntimeException.RuntimeException(String)

ResolvedTypeInferredFromExpectedType: false

Boxing: false; Unboxing: false

ConstantExpressionValue: null

EXPRESSION: null

TYPE\_ARGUMENTS (0)

TYPE

SimpleType [13012+16]

> type binding: java.lang.RuntimeException

ANNOTATIONS (0)

NAME

SimpleName [13012+16]

> (Expression) type binding:

java.lang.RuntimeException

Boxing: false; Unboxing: false

ConstantExpressionValue: null

IDENTIFIER: 'RuntimeException'

ARGUMENTS (1)

InfixExpression [13029+106]

> (Expression) type binding: java.lang.String

Boxing: false; Unboxing: false

ConstantExpressionValue: null

LEFT\_OPERAND

OPERATOR: '+'

RIGHT\_OPERAND

QualifiedName [13050+12]

```

> (Expression) type binding: int
> variable binding: <some array type>.length
Boxing: false; Unboxing: false
ConstantExpressionValue: null
QUALIFIER
    SimpleName [13050+5]
        > (Expression) type binding: byte[]
        > variable binding: array
        Boxing: false; Unboxing: false
        ConstantExpressionValue: null
        IDENTIFIER: 'array'
NAME
    SimpleName [13056+6]
        > (Expression) type binding: int
        > variable binding: <some array

type>.length
        Boxing: false; Unboxing: false
        ConstantExpressionValue: null
        IDENTIFIER: 'length'
EXTENDED_OPERANDS (2)
    StringLiteral [13085+35]
        > (Expression) type binding: java.lang.String
        Boxing: false; Unboxing: false
        ConstantExpressionValue: bytes has invalid prefix

length
        ESCAPED_VALUE: "" bytes has invalid prefix

length ""
    SimpleName [13123+12]
        > (Expression) type binding: int
        > variable binding: prefixLength
        Boxing: false; Unboxing: false
        ConstantExpressionValue: null
        IDENTIFIER: 'prefixLength'
ANONYMOUS_CLASS_DECLARATION: null

```

**File Path : frameworks/base/core/java/android/net/NetworkUtils.java**

**Line No: 347**

```

public static InetAddress getNetworkPart(InetAddress address, int prefixLength) {
    byte[] array = address.getAddress();
    maskRawAddress(array, prefixLength);

    InetAddress netPart = null;
    try {
        netPart = InetAddress.getByAddress(array);
    } catch (UnknownHostException e) {
        throw new RuntimeException("getNetworkPart error - " + e.toString());
    }
    return netPart;
}

```

}

Violations in: `throw new RuntimeException("getNetworkPart error - " + e.toString());`

AST of `throw new RuntimeException("getNetworkPart error - " + e.toString());`

ThrowStatement [14024+69]

EXPRESSION

ClassInstanceCreation [14030+62]

> (Expression) type binding: java.lang.RuntimeException

> method binding: RuntimeException.RuntimeException(String)

ResolvedTypeInferredFromExpectedType: false

Boxing: false; Unboxing: false

ConstantExpressionValue: null

EXPRESSION: null

TYPE\_ARGUMENTS (0)

TYPE

SimpleType [14034+16]

> type binding: java.lang.RuntimeException

ANNOTATIONS (0)

NAME

SimpleName [14034+16]

> (Expression) type binding:

java.lang.RuntimeException

Boxing: false; Unboxing: false

ConstantExpressionValue: null

IDENTIFIER: 'RuntimeException'

ARGUMENTS (1)

InfixExpression [14051+40]

> (Expression) type binding: java.lang.String

Boxing: false; Unboxing: false

ConstantExpressionValue: null

LEFT\_OPERAND

StringLiteral [14051+25]

> (Expression) type binding: java.lang.String

Boxing: false; Unboxing: false

ConstantExpressionValue: getNetworkPart error -

ESCAPED\_VALUE: "getNetworkPart error - "

OPERATOR: '+'

RIGHT\_OPERAND

MethodInvocation [14079+12]

> (Expression) type binding: java.lang.String

> method binding: Throwable.toString()

ResolvedTypeInferredFromExpectedType: false

Boxing: false; Unboxing: false

ConstantExpressionValue: null

```
java.net.UnknownHostException
    EXPRESSION
        SimpleName [14079+1]
        > (Expression) type binding:
            > variable binding: e
            Boxing: false; Unboxing: false
            ConstantExpressionValue: null
            IDENTIFIER: 'e'
    TYPE_ARGUMENTS (0)
    NAME
        SimpleName [14081+8]
        > (Expression) type binding:
            > method binding:
                Boxing: false; Unboxing: false
                ConstantExpressionValue: null
                IDENTIFIER: 'toString'
    ARGUMENTS (0)
    EXTENDED_OPERANDS (0)
    ANONYMOUS_CLASS_DECLARATION: null
```