

## NAME

Mail::Message::Field::AuthResults – message header field authentication result

## INHERITANCE

```
Mail::Message::Field::AuthResults
  is a Mail::Message::Field::Structured
  is a Mail::Message::Field::Full
  is a Mail::Message::Field
  is a Mail::Reporter
```

## SYNOPSIS

```
my $f = Mail::Message::Field->new('Authentication-Results' => '...');

my $g = Mail::Message::Field->new('Authentication-Results');
$g->addResult(method => 'dkim', result => 'fail');
```

## DESCRIPTION

Mail Transfer Agents may check the authenticity of an incoming message. They add ‘Authentication-Results’ headers, maybe more than one. This implementation is based on RFC7601.

Extends “DESCRIPTION” in Mail::Message::Field::Structured.

## OVERLOADED

Extends “OVERLOADED” in Mail::Message::Field::Structured.

overload: “”

Inherited, see “OVERLOADED” in Mail::Message::Field

overload: 0+

Inherited, see “OVERLOADED” in Mail::Message::Field

overload: <=>

Inherited, see “OVERLOADED” in Mail::Message::Field

overload: bool

Inherited, see “OVERLOADED” in Mail::Message::Field

overload: cmp

Inherited, see “OVERLOADED” in Mail::Message::Field

overload: stringification

Inherited, see “OVERLOADED” in Mail::Message::Field::Full

## METHODS

Extends “METHODS” in Mail::Message::Field::Structured.

### Constructors

Extends “Constructors” in Mail::Message::Field::Structured.

`$obj->clone()`

Inherited, see “Constructors” in Mail::Message::Field

`Mail::Message::Field::AuthResults->from($field, %options)`

Inherited, see “Constructors” in Mail::Message::Field::Full

`Mail::Message::Field::AuthResults->new($data)`

--Option	--Defined in	--Default
attributes	Mail::Message::Field::Structured	<ignored>
charset	Mail::Message::Field::Full	undef
datum	Mail::Message::Field::Structured	undef
encoding	Mail::Message::Field::Full	'q'
force	Mail::Message::Field::Full	false
language	Mail::Message::Field::Full	undef
log	Mail::Reporter	'WARNINGS'
results		[]
server		<required>
trace	Mail::Reporter	'WARNINGS'
version		undef

attributes => ATTRS  
 charset => STRING  
 datum => STRING  
 encoding => 'q'|'Q'|'b'|'B'  
 force => BOOLEAN  
 language => STRING  
 log => LEVEL  
 results => ARRAY  
     Each authentication method is represented by a HASH, which contains the 'method' and 'result' keys. Sometimes, there is a 'comment'. Properties of form 'ptype.pname' will be there as well.  
 server => DOMAIN  
     Where the authentication tool ran. This should be your local service, otherwise you may accept spoofed headers!  
 trace => LEVEL  
 version => INTEGER

### The field

Extends “The field” in Mail::Message::Field::Structured.

`$obj->isStructured()`

Mail::Message::Field::AuthResults->isStructured()

Inherited, see “The field” in Mail::Message::Field

`$obj->length()`

Inherited, see “The field” in Mail::Message::Field

`$obj->nrLines()`

Inherited, see “The field” in Mail::Message::Field

`$obj->print( [$fh] )`

Inherited, see “The field” in Mail::Message::Field

`$obj->size()`

Inherited, see “The field” in Mail::Message::Field

`$obj->string( [$wrap] )`

Inherited, see “The field” in Mail::Message::Field

`$obj->toDisclose()`

Inherited, see “The field” in Mail::Message::Field

### Access to the name

Extends “Access to the name” in Mail::Message::Field::Structured.

`$obj->Name()`

Inherited, see “Access to the name” in Mail::Message::Field

`$obj->name()`  
Inherited, see “Access to the name” in Mail::Message::Field

`$obj->wellformedName( [STRING] )`  
Inherited, see “Access to the name” in Mail::Message::Field

#### Access to the body

Extends “Access to the body” in Mail::Message::Field::Structured.

`$obj->body()`  
Inherited, see “Access to the body” in Mail::Message::Field

`$obj->decodedBody(%options)`  
Inherited, see “Access to the body” in Mail::Message::Field::Full

`$obj->folded()`  
Inherited, see “Access to the body” in Mail::Message::Field

`$obj->foldedBody( [$body] )`  
Inherited, see “Access to the body” in Mail::Message::Field

`$obj->stripCFWS( [STRING] )`  
Mail::Message::Field::AuthResults->stripCFWS( [STRING] )  
Inherited, see “Access to the body” in Mail::Message::Field

`$obj->unfoldedBody( [$body, [$wrap]] )`  
Inherited, see “Access to the body” in Mail::Message::Field

#### Access to the content

Extends “Access to the content” in Mail::Message::Field::Structured.

`$obj->addAttribute(...)`  
Attributes are not supported here.

`$obj->addResult(HASH|PAIRS)`  
Add new results to this header. Invalid results are ignored.

`$obj->addresses()`  
Inherited, see “Access to the content” in Mail::Message::Field

`$obj->attrPairs()`  
Inherited, see “Access to the content” in Mail::Message::Field::Structured

`$obj->attribute( $object|<STRING, %options>|<$name,$value,%options> )`  
Inherited, see “Access to the content” in Mail::Message::Field::Structured

`$obj->attributes()`  
Inherited, see “Access to the content” in Mail::Message::Field::Structured

`$obj->beautify()`  
Inherited, see “Access to the content” in Mail::Message::Field::Full

`$obj->comment( [STRING] )`  
Inherited, see “Access to the content” in Mail::Message::Field

`$obj->createComment(STRING, %options)`  
Mail::Message::Field::AuthResults->createComment(STRING, %options)  
Inherited, see “Access to the content” in Mail::Message::Field::Full

`$obj->createPhrase(STRING, %options)`  
Mail::Message::Field::AuthResults->createPhrase(STRING, %options)  
Inherited, see “Access to the content” in Mail::Message::Field::Full

`$obj->results()`  
Returns a LIST of result HASHes. Each HASH at least contains keys ‘method’, ‘method\_version’, and ‘result’.

`$obj->server()`  
 The hostname which ran this authentication tool.

`$obj->study()`  
 Inherited, see “Access to the content” in Mail::Message::Field

`$obj->toDate( [$time] )`  
 Mail::Message::Field::AuthResults->toDate( [\$time] )  
 Inherited, see “Access to the content” in Mail::Message::Field

`$obj->toInt()`  
 Inherited, see “Access to the content” in Mail::Message::Field

`$obj->version()`  
 The version of the ‘Authentication-Results’ header, which may be different from ‘1’ (default) for successors of RFC7601.

### Other methods

Extends “Other methods” in Mail::Message::Field::Structured.

`$obj->dateToTimestamp(String)`  
 Mail::Message::Field::AuthResults->dateToTimestamp(String)  
 Inherited, see “Other methods” in Mail::Message::Field

### Internals

Extends “Internals” in Mail::Message::Field::Structured.

`$obj->consume( $line | <$name,<$body|$objects>> )`  
 Inherited, see “Internals” in Mail::Message::Field

`$obj->decode(String, %options)`  
 Mail::Message::Field::AuthResults->decode(String, %options)  
 Inherited, see “Internals” in Mail::Message::Field::Full

`$obj->defaultWrapLength( [$length] )`  
 Inherited, see “Internals” in Mail::Message::Field

`$obj->encode(String, %options)`  
 Inherited, see “Internals” in Mail::Message::Field::Full

`$obj->fold( $name, $body, [$maxchars] )`  
 Mail::Message::Field::AuthResults->fold( \$name, \$body, [\$maxchars] )  
 Inherited, see “Internals” in Mail::Message::Field

`$obj->setWrapLength( [$length] )`  
 Inherited, see “Internals” in Mail::Message::Field

`$obj->stringifyData(String|Array|$objects)`  
 Inherited, see “Internals” in Mail::Message::Field

`$obj->unfold(String)`  
 Inherited, see “Internals” in Mail::Message::Field

### Parsing

Extends “Parsing” in Mail::Message::Field::Structured.

`$obj->consumeComment(String)`  
 Mail::Message::Field::AuthResults->consumeComment(String)  
 Inherited, see “Parsing” in Mail::Message::Field::Full

`$obj->consumeDotAtom(String)`  
 Inherited, see “Parsing” in Mail::Message::Field::Full

`$obj->consumePhrase(String)`

Mail::Message::Field::AuthResults->**consumePhrase**(STRING)

Inherited, see “Parsing” in Mail::Message::Field::Full

\$obj->**datum**( [\$value] )

Inherited, see “Parsing” in Mail::Message::Field::Structured

\$obj->**parse**(STRING)

Inherited, see “Parsing” in Mail::Message::Field::Full

\$obj->**produceBody**()

Inherited, see “Parsing” in Mail::Message::Field::Full

## Error handling

Extends “Error handling” in Mail::Message::Field::Structured.

\$obj->**AUTOLOAD**()

Inherited, see “Error handling” in Mail::Reporter

\$obj->**addReport**(\$object)

Inherited, see “Error handling” in Mail::Reporter

\$obj->**defaultTrace**( [\$level][[\$loglevel, \$tracelevel]][\$level, \$callback] )

Mail::Message::Field::AuthResults->**defaultTrace**( [\$level][[\$loglevel, \$tracelevel]][\$level, \$callback] )

Inherited, see “Error handling” in Mail::Reporter

\$obj->**errors**()

Inherited, see “Error handling” in Mail::Reporter

\$obj->**log**( [\$level, [\$strings]] )

Mail::Message::Field::AuthResults->**log**( [\$level, [\$strings]] )

Inherited, see “Error handling” in Mail::Reporter

\$obj->**logPriority**(\$level)

Mail::Message::Field::AuthResults->**logPriority**(\$level)

Inherited, see “Error handling” in Mail::Reporter

\$obj->**logSettings**()

Inherited, see “Error handling” in Mail::Reporter

\$obj->**notImplemented**()

Inherited, see “Error handling” in Mail::Reporter

\$obj->**report**( [\$level] )

Inherited, see “Error handling” in Mail::Reporter

\$obj->**reportAll**( [\$level] )

Inherited, see “Error handling” in Mail::Reporter

\$obj->**trace**( [\$level] )

Inherited, see “Error handling” in Mail::Reporter

\$obj->**warnings**()

Inherited, see “Error handling” in Mail::Reporter

## Cleanup

Extends “Cleanup” in Mail::Message::Field::Structured.

\$obj->**DESTROY**()

Inherited, see “Cleanup” in Mail::Reporter

## DETAILS

Extends “DETAILS” in Mail::Message::Field::Structured.

## DIAGNOSTICS

Warning: Field content is not numerical: `$content`

The numeric value of a field is requested (for instance the `Lines` or `Content-Length` fields should be numerical), however the data contains weird characters.

Warning: Illegal character in charset '`$charset`'

The field is created with an utf8 string which only contains data from the specified character set. However, that character set can never be a valid name because it contains characters which are not permitted.

Warning: Illegal character in field name `$name`

A new field is being created which does contain characters not permitted by the RFCs. Using this field in messages may break other e-mail clients or transfer agents, and therefore mutilate or extinguish your message.

Warning: Illegal character in language '`$lang`'

The field is created with data which is specified to be in a certain language, however, the name of the language cannot be valid: it contains characters which are not permitted by the RFCs.

Warning: Illegal encoding '`$encoding`', used '`q`'

The RFCs only permit base64 (`b` or `B`) or quoted-printable (`q` or `Q`) encoding. Other than these four options are illegal.

Error: No attributes for Authentication-Results

Is is not possible to add attributes to this field.

Error: Package `$package` does not implement `$method`.

Fatal error: the specific package (or one of its superclasses) does not implement this method where it should. This message means that some other related classes do implement this method however the class at hand does not. Probably you should investigate this and probably inform the author of the package.

## SEE ALSO

This module is part of Mail-Message distribution version 3.012, built on February 11, 2022. Website: <http://perl.overmeer.net/CPAN/>

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