Security Findings of Project "amqp-1-0-protocol"

Analysis Date: 2020-06-13 18:44:44

Analyzed Workspace:

Packages:	17	Total LOC:	44,549
Classes:	551	No. of Bytecode Instructions:	115,677

Computed Call Graph:

Classes not in Call Graph:	551	Methods not in Call Graph:	0

Findings in List:

All Findings:	47	Problematic Findings:	41

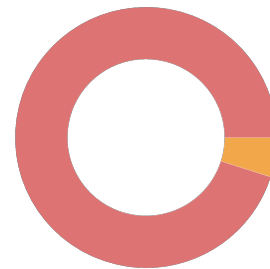**Finding Problem Types:**

- SpotBugs: May expose...: 23
- SpotBugs: May expose...: 12
- Other: 6

Finding Classifications:
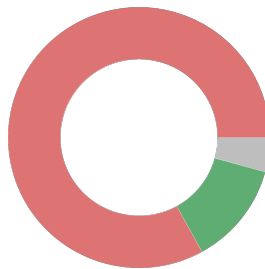
- High risk: 39
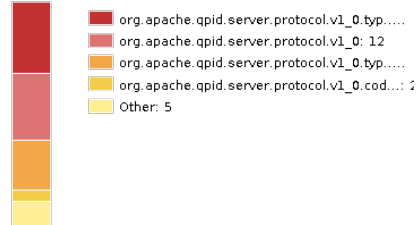- No risk: 6
- Neutral: 2

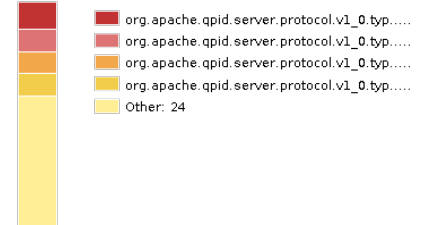**Finding Ratings:**

- High risk: 39
- Medium risk: 2

OWASP Top 10 2017

- A 1: Injection: 0
- A 2: Broken Authentication and Session ....
- A 3: Sensitive Data Exposure: 1
- A 4: XXE: 0
- A 5: Broken Access Control: 1
- A 6: Security Misconfiguration: 0
- A 7: XSS: 0
- A 8: Insecure Deserialization: 0
- A 9: Using Components with Known Vulner...
- A 10: Insufficient Logging & Monitoring: 0

Hot Spots (Packages)

- org.apache.qpid.server.protocol.v1_0.typ.....
- org.apache.qpid.server.protocol.v1_0: 12
- org.apache.qpid.server.protocol.v1_0.typ.....
- org.apache.qpid.server.protocol.v1_0.cod...: 2
- Other: 5

Hot Spots (Classes)

- org.apache.qpid.server.protocol.v1_0.typ.....
- org.apache.qpid.server.protocol.v1_0.typ.....
- org.apache.qpid.server.protocol.v1_0.typ.....
- org.apache.qpid.server.protocol.v1_0.typ.....
- Other: 24

Findings List

Finding ID:	**45**	Problem Type:	Hard-Coded Credentials: Username in Variables (Special Code)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	PropertyConverter_Internal_to_v1_0Test.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):232		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Hard-Coded Credentials: Username in Variables'. Literal credential in field 'userId'		

Finding ID:	**47**	Problem Type:	Usage: Reverse DNS Resolution (Special Code)
Classification:	Manual Review Required	**Date:**	2020-06-13 18:44:44 - new
Rating:	5.00	**Reviewed State:**	Not Reviewed
Location:	Container.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):45		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Reverse DNS Resolution'. Declared in: java.net.InetAddress Matching pattern in special code kind 'Usage: Reverse DNS Resolution': java.lang.String java.net.InetAddress.getHostName()		

Finding ID:	**11**	Problem Type:	FindSecBugs: Hard Coded Key (SpotBugs Security Issues)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	ValueHandlerTest.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/codec):35		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: Hard coded cryptographic key found - Value is hard coded in field org.apache.qpid.server.protocol.v1_0.codec.ValueHandlerTest.FORMAT_CODES[B with suspicious name		

Findings List

Finding ID:	46	**Problem Type:**	Usage: Privileged Action (Special Code)
Classification:	Manual Review Required	**Date:**	2020-06-13 18:44:44 - new
Rating:	5.00	**Reviewed State:**	Not Reviewed
Location:	AMQPConnection_1_0Impl.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):1593		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Privileged Action'. Declared in: org.apache.qpid.server.protocol.v1_0.AMQPConnection_1_0Impl$1 Matching pattern in special code kind 'Usage: Privileged Action': ** java.security.PrivilegedAction.run()		

Finding ID:	1	**Problem Type:**	FindSecBugs: Regex DOS (ReDOS) (SpotBugs Security Issues)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	AMQPConnection_1_0Impl.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):1030		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: The regular expression "\\[[0-9a-f:]+\\](:[0-9]+)?" is vulnerable to a denial of service attack (ReDOS) - Value \\[[0-9a-f:]+\\](:[0-9]+)? - In method org.apache.qpid.server.protocol.v1_0.AMQPConnection_1_0Impl.populateConnectionRedirect(NamedAddressSpace, Error)		

Finding ID:	29	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Attach.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):204		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Attach.setOfferedCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Attach._offeredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Attach.setOfferedCapabilities(Symbol[]) - Field org.apache.qpid.server.protocol.v1_0.type.transport.Attach._offeredCapabilities - Local variable named offeredCapabilities		

Findings List

Finding ID:	28	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Attach.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):214		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.transport.Attach.setDesiredCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Attach._desiredCapabilities

- In method org.apache.qpid.server.protocol.v1_0.type.transport.Attach.setDesiredCapabilities(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.transport.Attach._desiredCapabilities
- Local variable named desiredCapabilities

Finding ID:	33	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Begin.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):122		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.transport.Begin.setOfferedCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Begin._offeredCapabilities

- In method org.apache.qpid.server.protocol.v1_0.type.transport.Begin.setOfferedCapabilities(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.transport.Begin._offeredCapabilities
- Local variable named offeredCapabilities

Finding ID:	32	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Begin.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):132		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.transport.Begin.setDesiredCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Begin._desiredCapabilities

- In method org.apache.qpid.server.protocol.v1_0.type.transport.Begin.setDesiredCapabilities(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.transport.Begin._desiredCapabilities
- Local variable named desiredCapabilities

Findings List

Finding ID:	13	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	Date:	2020-06-13 18:44:44 - new
Rating:	8.00	Reviewed State:	Not Reviewed
Location:	Binary.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type):34		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: new org.apache.qpid.server.protocol.v1_0.type.Binary(byte[]) may expose internal representation by storing an externally mutable object into Binary._data - In method new org.apache.qpid.server.protocol.v1_0.type.Binary(byte[]) - Field org.apache.qpid.server.protocol.v1_0.type.Binary._data - Local variable named data		

Finding ID:	38	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	Date:	2020-06-13 18:44:44 - new
Rating:	8.00	Reviewed State:	Not Reviewed
Location:	Open.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):158		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Open.setDesiredCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Open._desiredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Open.setDesiredCapabilities(Symbol[]) - Field org.apache.qpid.server.protocol.v1_0.type.transport.Open._desiredCapabilities - Local variable named desiredCapabilities		

Finding ID:	16	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	Date:	2020-06-13 18:44:44 - new
Rating:	8.00	Reviewed State:	Not Reviewed
Location:	Properties.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):161		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.setAbsoluteExpiryTime(Date) may expose internal representation by storing an externally mutable object into Properties._absoluteExpiryTime - In method org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.setAbsoluteExpiryTime(Date) - Field org.apache.qpid.server.protocol.v1_0.type.messaging.Properties._absoluteExpiryTime - Local variable named absoluteExpiryTime		

Findings List

Finding ID:	17	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Properties.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):171		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.setCreationTime(Date) may expose internal representation by storing an externally mutable object into Properties._creationTime

- In method org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.setCreationTime(Date)
- Field org.apache.qpid.server.protocol.v1_0.type.messaging.Properties._creationTime
- Local variable named creationTime

Finding ID:	24	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	SaslMechanisms.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/security):48		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms.setSaslServerMechanisms(Symbol[]) may expose internal representation by storing an externally mutable object into SaslMechanisms._saslServerMechanisms

- In method org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms.setSaslServerMechanisms(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms._saslServerMechanisms
- Local variable named saslServerMechanisms

Finding ID:	10	Problem Type:	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	SimpleVariableWidthWriter.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/codec):33		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
new org.apache.qpid.server.protocol.v1_0.codec.SimpleVariableWidthWriter(byte[]) may expose internal representation by storing an externally mutable object into SimpleVariableWidthWriter._buf

- In method new org.apache.qpid.server.protocol.v1_0.codec.SimpleVariableWidthWriter(byte[])
- Field org.apache.qpid.server.protocol.v1_0.codec.SimpleVariableWidthWriter._buf
- Local variable named value

Findings List

Finding ID:	**20**	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Source.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):207		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Source.setCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Source._capabilities

- In method org.apache.qpid.server.protocol.v1_0.type.messaging.Source.setCapabilities(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.messaging.Source._capabilities
- Local variable named capabilities

Finding ID:	**22**	**Problem Type:**	SpotBugs: May expose internal representation by incorporating reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Target.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):127		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Target.setCapabilities(Symbol[]) may expose internal representation by storing an externally mutable object into Target._capabilities

- In method org.apache.qpid.server.protocol.v1_0.type.messaging.Target.setCapabilities(Symbol[])
- Field org.apache.qpid.server.protocol.v1_0.type.messaging.Target._capabilities
- Local variable named capabilities

Finding ID:	**27**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Attach.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):199		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Attach.getOfferedCapabilities() may expose internal representation by returning Attach._offeredCapabilities

- In method org.apache.qpid.server.protocol.v1_0.type.transport.Attach.getOfferedCapabilities()
- Field org.apache.qpid.server.protocol.v1_0.type.transport.Attach._offeredCapabilities

Findings List

Finding ID:	**26**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Attach.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):209		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Attach.getDesiredCapabilities() may expose internal representation by returning Attach._desiredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Attach.getDesiredCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Attach._desiredCapabilities		

Finding ID:	**31**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Begin.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):117		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Begin.getOfferedCapabilities() may expose internal representation by returning Begin._offeredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Begin.getOfferedCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Begin._offeredCapabilities		

Finding ID:	**30**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Begin.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):127		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Begin.getDesiredCapabilities() may expose internal representation by returning Begin._desiredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Begin.getDesiredCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Begin._desiredCapabilities		

Findings List

Finding ID:	**12**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Binary.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type):70		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.Binary.getArray() may expose internal representation by returning Binary._data - In method org.apache.qpid.server.protocol.v1_0.type.Binary.getArray() - Field org.apache.qpid.server.protocol.v1_0.type.Binary._data		

Finding ID:	**25**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Coordinator.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transaction):42		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transaction.Coordinator.getCapabilities() may expose internal representation by returning Coordinator._capabilities - In method org.apache.qpid.server.protocol.v1_0.type.transaction.Coordinator.getCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transaction.Coordinator._capabilities		

Finding ID:	**4**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	ExchangeSendingDestination.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):284		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination.getOutcomes() may expose internal representation by returning ExchangeSendingDestination.OUTCOMES - In method org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination.getOutcomes() - Field org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination.OUTCOMES		

Findings List

Finding ID:	3	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	ExchangeSendingDestination.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):300		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination.getCapabilities() may expose internal representation by returning ExchangeSendingDestination._capabilities - In method org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination.getCapabilities() - Field org.apache.qpid.server.protocol.v1_0.ExchangeSendingDestination._capabilities		

Finding ID:	5	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	MessageConverter_from_1_0.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):600		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.MessageConverter_from_1_0$ConvertedContentAndMimeType.getContent() may expose internal representation by returning MessageConverter_from_1_0$ConvertedContentAndMimeType._content - In method org.apache.qpid.server.protocol.v1_0.MessageConverter_from_1_0$ConvertedContentAndMimeType.getContent() - Field org.apache.qpid.server.protocol.v1_0.MessageConverter_from_1_0$ConvertedContentAndMimeType._content		

Finding ID:	37	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Open.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):123		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Open.getOutgoingLocales() may expose internal representation by returning Open._outgoingLocales - In method org.apache.qpid.server.protocol.v1_0.type.transport.Open.getOutgoingLocales() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Open._outgoingLocales		

Finding ID:	**35**	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Open.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):133		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Open.getIncomingLocales() may expose internal representation by returning Open._incomingLocales - In method org.apache.qpid.server.protocol.v1_0.type.transport.Open.getIncomingLocales() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Open._incomingLocales		

Finding ID:	**36**	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Open.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):143		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Open.getOfferedCapabilities() may expose internal representation by returning Open._offeredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Open.getOfferedCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Open._offeredCapabilities		

Finding ID:	**34**	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Open.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/transport):153		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.transport.Open.getDesiredCapabilities() may expose internal representation by returning Open._desiredCapabilities - In method org.apache.qpid.server.protocol.v1_0.type.transport.Open.getDesiredCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.transport.Open._desiredCapabilities		

Finding ID:	**14**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Properties.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):156		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.getAbsoluteExpiryTime() may expose internal representation by returning Properties._absoluteExpiryTime - In method org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.getAbsoluteExpiryTime() - Field org.apache.qpid.server.protocol.v1_0.type.messaging.Properties._absoluteExpiryTime		

Finding ID:	**15**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Properties.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):166		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.getCreationTime() may expose internal representation by returning Properties._creationTime - In method org.apache.qpid.server.protocol.v1_0.type.messaging.Properties.getCreationTime() - Field org.apache.qpid.server.protocol.v1_0.type.messaging.Properties._creationTime		

Finding ID:	**6**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	ProtocolEngineCreator_1_0_0.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):72		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0.getHeaderIdentifier() may expose internal representation by returning ProtocolEngineCreator_1_0_0.AMQP_1_0_0_HEADER - In method org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0.getHeaderIdentifier() - Field org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0.AMQP_1_0_0_HEADER		

Findings List

Finding ID:	7	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	ProtocolEngineCreator_1_0_0_SASL.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):61		
Tags:	no tags assigned		
Comment:	*no comment*		

Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0_SASL.getHeaderIdentifier() may expose internal representation by returning ProtocolEngineCreator_1_0_0_SASL.AMQP_SASL_1_0_0_HEADER - In method org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0_SASL.getHeaderIdentifier() - Field org.apache.qpid.server.protocol.v1_0.ProtocolEngineCreator_1_0_0_SASL.AMQP_SASL_1_0_0_HEADER

Finding ID:	23	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	SaslMechanisms.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/security):43		
Tags:	no tags assigned		
Comment:	*no comment*		

Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms.getSaslServerMechanisms() may expose internal representation by returning SaslMechanisms._saslServerMechanisms - In method org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms.getSaslServerMechanisms() - Field org.apache.qpid.server.protocol.v1_0.type.security.SaslMechanisms._saslServerMechanisms

Finding ID:	19	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Source.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):192		
Tags:	no tags assigned		
Comment:	*no comment*		

Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Source.getOutcomes() may expose internal representation by returning Source._outcomes - In method org.apache.qpid.server.protocol.v1_0.type.messaging.Source.getOutcomes() - Field org.apache.qpid.server.protocol.v1_0.type.messaging.Source._outcomes

Findings List

Finding ID:	**18**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Source.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):202		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.type.messaging.Source.getCapabilities() may expose internal representation by returning Source._capabilities - In method org.apache.qpid.server.protocol.v1_0.type.messaging.Source.getCapabilities() - Field org.apache.qpid.server.protocol.v1_0.type.messaging.Source._capabilities		

Finding ID:	**9**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	StandardSendingDestination.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):65		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.StandardSendingDestination.getOutcomes() may expose internal representation by returning StandardSendingDestination.OUTCOMES - In method org.apache.qpid.server.protocol.v1_0.StandardSendingDestination.getOutcomes() - Field org.apache.qpid.server.protocol.v1_0.StandardSendingDestination.OUTCOMES		

Finding ID:	**8**	**Problem Type:**	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	StandardSendingDestination.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):77		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	A finding identified by the external 'SpotBugs' plugin: org.apache.qpid.server.protocol.v1_0.StandardSendingDestination.getCapabilities() may expose internal representation by returning StandardSendingDestination._capabilities - In method org.apache.qpid.server.protocol.v1_0.StandardSendingDestination.getCapabilities() - Field org.apache.qpid.server.protocol.v1_0.StandardSendingDestination._capabilities		

Findings List

Finding ID:	**21**	Problem Type:	SpotBugs: May expose internal representation by returning reference to mutable object (SpotBugs Malicious Code Vulnerabilities)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Target.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/messaging):122		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
org.apache.qpid.server.protocol.v1_0.type.messaging.Target.getCapabilities() may expose internal representation by returning Target._capabilities

- In method org.apache.qpid.server.protocol.v1_0.type.messaging.Target.getCapabilities()
- Field org.apache.qpid.server.protocol.v1_0.type.messaging.Target._capabilities

Finding ID:	**2**	Problem Type:	SpotBugs: Method calls InetAddress.getLocalHost() (SpotBugs Security Issues)
Classification:	Warning	**Date:**	2020-06-13 18:44:44 - new
Rating:	8.00	**Reviewed State:**	Not Reviewed
Location:	Container.java (<Source Code>/org/apache/qpid/server/protocol/v1_0):41		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: A finding identified by the external 'SpotBugs' plugin:
Method new org.apache.qpid.server.protocol.v1_0.Container() calls InetAddress.getLocalHost(), which may be a security risk

- In method new org.apache.qpid.server.protocol.v1_0.Container()
- Called method java.net.InetAddress.getLocalHost()

Finding ID:	**39**	Problem Type:	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	AMQPDescribedTypeRegistry.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/type/codec):356		
Tags:	no tags assigned		
Comment:	*no comment*		

Description: An identified location for problem type 'Usage: Java Reflection'.
Declared in: java.lang.reflect.Array

Matching pattern in special code kind 'Usage: Java Reflection':
static java.lang.Object java.lang.reflect.Array.newInstance(java.lang.Class, int)

Findings List

Finding ID:	**41**	**Problem Type:**	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	AbstractCompositeTypeConstructor.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/ codec):268		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Java Reflection'. Declared in: java.lang.reflect.Array Matching pattern in special code kind 'Usage: Java Reflection': static java.lang.Object java.lang.reflect.Array.newInstance(java.lang.Class, int)		

Finding ID:	**42**	**Problem Type:**	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	AbstractCompositeTypeConstructor.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/ codec):287		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Java Reflection'. Declared in: java.lang.reflect.Array Matching pattern in special code kind 'Usage: Java Reflection': static java.lang.Object java.lang.reflect.Array.newInstance(java.lang.Class, int)		

Finding ID:	**43**	**Problem Type:**	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	AbstractCompositeTypeConstructor.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/ codec):296		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Java Reflection'. Declared in: java.lang.reflect.Array Matching pattern in special code kind 'Usage: Java Reflection': static java.lang.Object java.lang.reflect.Array.newInstance(java.lang.Class, int)		

Findings List

Finding ID:	**44**	**Problem Type:**	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	ArrayTypeConstructor.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/codec):77		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Java Reflection'. Declared in: java.lang.reflect.Array Matching pattern in special code kind 'Usage: Java Reflection': static java.lang.Object java.lang.reflect.Array.newInstance(java.lang.Class, int)		

Finding ID:	**40**	**Problem Type:**	Usage: Java Reflection (Special Code)
Classification:	Information	**Date:**	2020-06-13 18:44:44 - new
Rating:	0.00	**Reviewed State:**	Not Reviewed
Location:	SpecializedDescribedType.java (<Source Code>/org/apache/qpid/server/protocol/v1_0/codec):40		
Tags:	no tags assigned		
Comment:	*no comment*		
Description:	An identified location for problem type 'Usage: Java Reflection'. Declared in: java.lang.reflect.Method Matching pattern in special code kind 'Usage: Java Reflection': java.lang.Object java.lang.reflect.Method.invoke(java.lang.Object, java.lang.Object[])		