[MS-RDPELE]:

Remote Desktop Protocol: Licensing Extension

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1 Introduction

The Remote Desktop Protocol: Licensing Extension expands on the licensing protocol sequence specified in [MS-RDPBCGR].

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

Active Directory: The Windows implementation of a general-purpose directory service, which uses LDAP as its primary access protocol. **Active Directory** stores information about a variety of objects in the network such as user accounts, computer accounts, groups, and all related credential information used by Kerberos [MS-KILE]. **Active Directory** is either deployed as Active Directory Domain Services (AD DS) or Active Directory Lightweight Directory Services (AD LDS), which are both described in [MS-ADOD]: Active Directory Protocols Overview.

American National Standards Institute (ANSI) character set: A character set defined by a code page approved by the American National Standards Institute (ANSI). The term "ANSI" as used to signify Windows code pages is a historical reference and a misnomer that persists in the Windows community. The source of this misnomer stems from the fact that the Windows code page 1252 was originally based on an ANSI draft, which became International Organization for Standardization (ISO) Standard 8859-1 [ISO/IEC-8859-1]. In Windows, the ANSI character set can be any of the following code pages: 1252, 1250, 1251, 1253, 1254, 1255, 1256, 1257, 1258, 874, 932, 936, 949, or 950. For example, "ANSI application" is usually a reference to a non-Unicode or code-page-based application. Therefore, "ANSI character set" is often misused to refer to one of the character sets defined by a Windows code page that can be used as an active system code page; for example, character sets defined by code page 1252 or character sets defined by code page 950. Windows is now based on Unicode, so the use of ANSI character sets is strongly discouraged unless they are used to interoperate with legacy applications or legacy data.

clearing house: A Microsoft central authority for activating a **license server** and registering **client access licenses (CALs)**.

client: A computer on which the remote procedure call (RPC) client is executing.

Client Access License (CAL): A license that gives a user the right to access the services of a server. To legally access the server software, a CAL can be required. A CAL is not a software product.

client license: See client access license (CAL).

grace period: The duration of time during which a **terminal server** allows **clients** to connect without requiring a **CAL**. The grace period ends either when the duration is complete or when the **terminal server** receives the first **permanent license** from the **license server**.

license encryption key: A shared symmetric key generated by both the **server** and **client** that is used to encrypt licensing message data.

license server: A server that issues CALs.

license server certificate: An X.509 certificate used for signing **CALs**.

license store: A client-side database that stores CALs issued by a terminal server.

- **MD5 digest**: A 128-bit message hash value generated as output by the MD5 Message-Digest algorithm. See [RFC1321].
- **Message Authentication Code (MAC)**: A message authenticator computed through the use of a symmetric key. A **MAC** algorithm accepts a secret key and a data buffer, and outputs a **MAC**. The data and **MAC** can then be sent to another party, which can verify the integrity and authenticity of the data by using the same secret key and the same **MAC** algorithm.
- **object identifier (OID)**: In the context of a directory service, a number identifying an object class or attribute. Object identifiers are issued by the ITU and form a hierarchy. An OID is represented as a dotted decimal string (for example, "1.2.3.4"). For more information on OIDs, see [X660] and [RFC3280] Appendix A. OIDs are used to uniquely identify certificate templates available to the certification authority (CA). Within a certificate, OIDs are used to identify standard extensions, as described in [RFC3280] section 4.2.1.x, as well as non-standard extensions.

permanent license: A **CAL** issued to authenticated clients.

personal terminal server: In general context, refers to a client SKU target machine that hosts remote desktop sessions. From a terminal service licensing perspective, the behavior of a personal terminal server is similar to that of a terminal server in remote administration mode. Thus any behavioral reference to a personal terminal server in this document essentially implies that the particular behavior is valid for a terminal server in remote administration mode as well. The term personal terminal server is therefore used to encompass all connections where either the end point is a client SKU operating system or is a terminal server running in remote administration mode.

premaster secret: A 48-byte random number used in license encryption key generation.

- **RC4**: A variable key-length symmetric encryption algorithm. For more information, see [SCHNEIER] section 17.1.
- remote administration mode: A terminal server can function in remote administration mode if either the terminal services role is not installed on the machine or the client used to invoke the session has enabled the /admin switch. The administrator can log in to the terminal server in the remote administration mode by using the following command from any Remote Desktop client (with Terminal Services Client version 6.0 or 6.1). "mstsc /admin < remote machine name>"
- **Remote Desktop client**: A device that connects to a **terminal server** and renders the user interface through which a user interacts with a remote session.
- **Remote Desktop Protocol (RDP)**: A multi-channel protocol that allows a user to connect to a computer running Microsoft Terminal Services (TS). RDP enables the exchange of client and server settings and also enables negotiation of common settings to use for the duration of the connection, so that input, graphics, and other data can be exchanged and processed between client and server.

server: A computer on which the remote procedure call (RPC) server is executing.

- **session encryption key**: A shared key used for confidential exchange of data between the **client** and the **server**.
- **SHA-1 hash**: A hashing algorithm as specified in [FIPS180-2] that was developed by the National Institute of Standards and Technology (NIST) and the National Security Agency (NSA).
- **temporary license**: A type of **CAL** issued by a **terminal server** to a **client** in situations in which a **permanent license** is not available.

terminal server: The server to which a client initiates a remote desktop connection. The **server** hosts Remote Desktop sessions and enables interaction with each of these sessions on a connected **client** device.

terminal server certificate: A certificate that should be used to authenticate a terminal server.

Unicode string: A Unicode 8-bit string is an ordered sequence of 8-bit units, a Unicode 16-bit string is an ordered sequence of 16-bit code units, and a Unicode 32-bit string is an ordered sequence of 32-bit code units. In some cases, it could be acceptable not to terminate with a terminating null character. Unless otherwise specified, all **Unicode strings** follow the UTF-16LE encoding scheme with no Byte Order Mark (BOM).

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the Errata.

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[ISO/IEC-8859-1] International Organization for Standardization, "Information Technology -- 8-Bit Single-Byte Coded Graphic Character Sets -- Part 1: Latin Alphabet No. 1", ISO/IEC 8859-1, 1998, http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=28245

Note There is a charge to download the specification.

[MS-RDPBCGR] Microsoft Corporation, "Remote Desktop Protocol: Basic Connectivity and Graphics Remoting".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, https://www.rfc-editor.org/rfc/rfc2119.html

[RFC3280] Housley, R., Polk, W., Ford, W., and Solo, D., "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile", RFC 3280, April 2002, http://www.ietf.org/rfc/rfc3280.txt

[T123] ITU-T, "Network-Specific Data Protocol Stacks for Multimedia Conferencing", Recommendation T.123, May 1999, http://www.itu.int/rec/T-REC-T.123/en

Note There is a charge to download the specification.

[T125] ITU-T, "Multipoint Communication Service Protocol Specification", Recommendation T.125, February 1998, http://www.itu.int/rec/T-REC-T.125-199802-I/en

Note There is a charge to download the specification.

[X224] ITU-T, "Information technology - Open Systems Interconnection - Protocol for Providing the Connection-Mode Transport Service", Recommendation X.224, November 1995, http://www.itu.int/rec/T-REC-X.224-199511-I/en

Note There is a charge to download the specification.

1.2.2 Informative References

[MS-EERR] Microsoft Corporation, "ExtendedError Remote Data Structure".

[MSDN-CAI] Microsoft Corporation, "CRYPT_ALGORITHM_IDENTIFIER structure", http://msdn.microsoft.com/En-US/library/aa381133.aspx

[MSDN-MUI] Microsoft Corporation, "Language Identifier Constants and Strings", https://learn.microsoft.com/en-us/windows/win32/intl/language-identifier-constants-and-strings

[MSDN-OSVER] Microsoft Corporation, "Operating System Version", http://msdn.microsoft.com/en-us/library/ms724832(VS.85).aspx

[MSDN-RC4] Microsoft Corporation, "MSDN Security Glossary", http://msdn.microsoft.com/en-us/library/ms721604.aspx

[SCHNEIER] Schneier, B., "Applied Cryptography, Second Edition", John Wiley and Sons, 1996, ISBN: 0471117099, http://www.wiley.com/WileyCDA/WileyTitle/productCd-0471117099.html

1.3 Overview

The Remote Desktop Protocol: Licensing Extension is designed to allow authorized **remote desktop clients** or users to connect to a **terminal server** (A reference to terminal server in this document generally implies a terminal server in app-server mode). It involves communication between a Remote Desktop client, a terminal server, and a **license server**. The terminal server can be configured to function in per-device or per-user license mode. **Client access licenses (CALs)** are installed on a license server, so that when a terminal server requests a license on a client's behalf, the license server issues a license out of its available pool of licenses.

The Licensing Extension also provides a mechanism for remote desktop clients to send their client access licenses (CALs) to **personal terminal servers**. The presence of these CALs in such connections is not designed to control access to the target machines but can be used to turn on or off specific RDP features reserved for licensed clients. The communication involved here is limited to communication between the Remote Desktop client and the personal terminal server. No license server is involved in any part of the communication.

1.3.1 Licensing Architecture

The Remote Desktop Protocol: Licensing Extension involves the following components:

- Remote desktop client: Connects to a terminal server and renders the user interface through which a user interacts with a remote session.
- Terminal server: Hosts remote desktop sessions and enables interaction with each of these sessions on a connected client device. A reference to terminal server generally refers to a terminal server in app-server mode.
- Personal terminal server: Hosts remote desktop session where the target operating system is either a client SKU or a terminal server in remote administration mode.
- License server: Issues licenses to users or devices using remote desktop sessions.
- **Clearing house**: Activates license servers and supplies CALs to license servers.
- Active Directory: Stores licenses issued to users.
- License Manager: Administers license servers.

The following diagram illustrates the relationship and interaction among these components in a typical terminal server deployment.

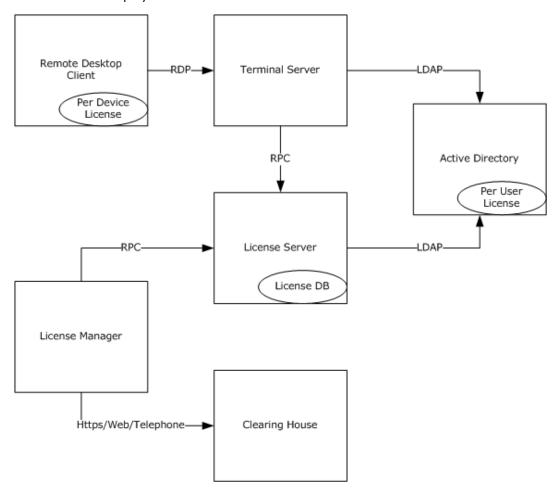


Figure 1: Licensing architecture components for terminal server licensing

The Remote Desktop Protocol: Licensing Extension facilitates the exchange of licensing information between the Remote Desktop client and the terminal server and is restricted between these two components only. The interaction among the remaining components (for example, between the terminal server and the license server) is not a function of the Remote Desktop Protocol: Licensing Extension.

The license server manages the terminal server CALs. It keeps track of issued and expired per-device terminal server CALs in the license database. The per-user terminal server CALs are stored in Active Directory. The terminal server communicates with the license server, using RPC to accomplish the following tasks:

- Issue a new terminal server CAL.
- Upgrade an older version terminal server CAL.

The terminal server interacts with Active Directory to retrieve information on the per-user terminal server CAL when the terminal server is configured in per-user license mode. The license server has to be registered with the Microsoft clearing house before it starts issuing terminal server CALs to the Remote desktop clients. The License Manager is the GUI application for managing the license server. The License Manager provides an interface to the administrator to register the license server with the

clearing house. The administrator can use one of two methods to register the license server with the clearing house:

- HTTPS: The License Manager contacts the clearing house over HTTPS and registers the license server and terminal server CAL key-packs.
- Telephone/web: The administrator gets the license server and terminal server CAL key-pack registration information manually from the telephone or web and enters the registration information in the interface provided by the License Manager.

The Remote Desktop Protocol: The personal terminal server and the Remote Desktop client do not exchange any licensing information.

For more information about license PDU flows for personal terminal servers, see section 1.3.3.

1.3.2 X.509 Certificate Chains

A **license server** issues X.509 certificate chains (see [RFC3280]) to terminal servers and **Remote Desktop clients**. A certificate chain is a sequence of certificates. The chain usually starts with a leaf certificate and terminates at a root certificate. Each certificate is signed by the subject of the subsequent certificate in the chain. The root certificate is self-signed. For the structure of X.509 certificate chains used in the Remote Desktop Protocol: Licensing Extension, see section 2.2.1.4.2.

The certificate encoding used is ASN.1 DER, as specified in [RFC3280] section 4.1.

1.3.3 Licensing PDU Flows

A target machine (**terminal server** or **personal terminal server**) initiates the licensing protocol data unit (PDU) exchange by sending a **Server License Request** (section <u>2.2.2.1</u>) message on receipt of the Client Info PDU (see [MS-RDPBCGR] sections 2.2.1.11 and 3.3.5.3.11).

When a **Remote Desktop client** connects to a target machine, either the client has a license, or it does not.

If the client is connecting to a terminal server and the client does not have a license, the terminal server tries to obtain a license (See **New License Flow** (section $\underline{1.3.3.1}$).) If the client has a license, the terminal server validates the version and expiry date. If the license is valid, access is allowed. If the license is expired, temporary, or a lower version than the operating system version of the terminal server, the license is upgraded. For the steps to upgrade the license, see **Upgrade License Flow** (section $\underline{1.3.3.2}$).

If the target machine is a personal terminal server, whether the client sends the license or not, the server always sends a **Licensing Error Message** (section <u>2.2.2.8</u>) with the error code STATUS_VALID_CLIENT and the state transition code ST_NO_TRANSITION. Also, in the case that the client sends a license, the server does not validate it. The licensing protocol is complete at this point.

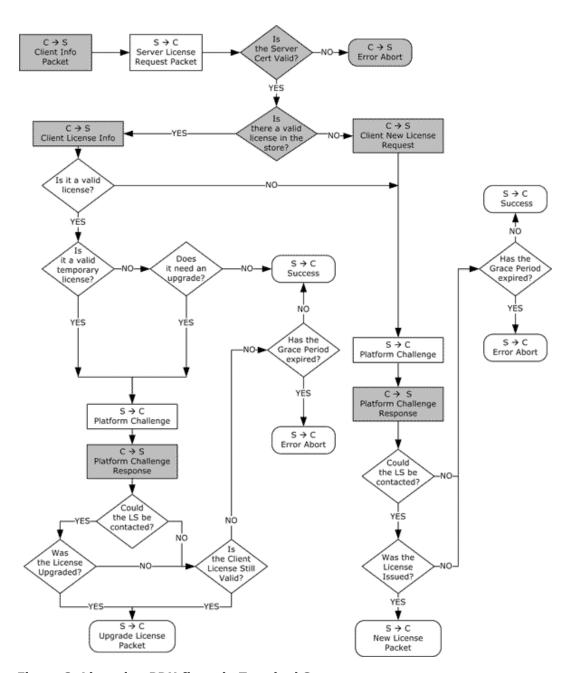


Figure 2: Licensing PDU flows in Terminal Server

This flow chart describes the logic for the following cases:

- A license is issued through the terminal server. The server issues a CAL to the client when the client does not have a license in its **license store**.
- A license is upgraded. A CAL is upgraded when it is a **temporary license** or a **permanent license** that is going to expire in seven days. A valid license has to be upgraded if the license is meant for an older version of the terminal server or if it has expired.
- An error condition occurs.

1.3.3.1 New License Flow

When the **Remote Desktop client** does not have a license in its **license store**, the message flow is as shown in the following diagram.

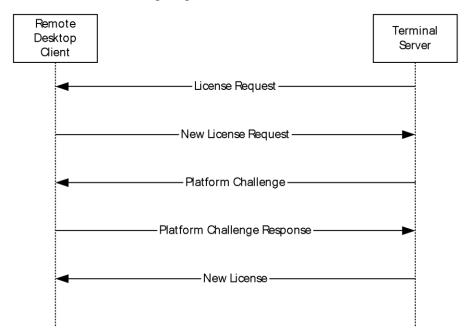


Figure 3: Remote Desktop client new license flow

1.3.3.2 Upgrade License Flow

When the **Remote Desktop client** has a license in its **license store**, the message flow is as shown in the following diagram.

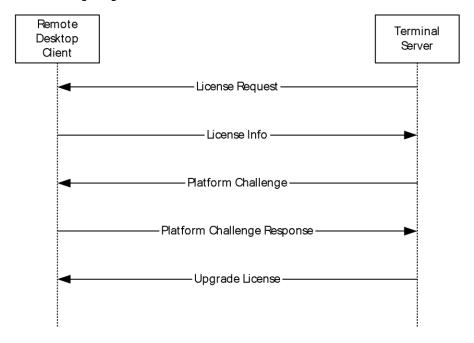


Figure 4: Remote Desktop client upgrade license flow

1.4 Relationship to Other Protocols

The Remote Desktop Protocol: Licensing Extension extends the Remote Desktop Protocol: Basic Connectivity and Graphics Remoting (as specified in [MS-RDPBCGR]) by adding licensing capabilities.

The licensing protocol sequence is started by the server during the **Remote Desktop Protocol** (**RDP**) standard connection sequence after receiving the Client Info PDU (see sections 1.3.1.1 and 2.2.11). If exchange of licensing information is required, the server sends a <u>Server License</u> <u>Request (section 2.2.2.1)</u> to the client at this point. Otherwise, the RDP standard connection sequence continues (see section 1.3.1.1).

1.5 Prerequisites/Preconditions

The Remote Desktop Protocol: Licensing Extension assumes that the system already has an IP address and is thus capable of communicating on the network. It also assumes that the initiator (or **client**) has already obtained the IP address of the **server**, that the server has registered a port, and that the server is actively listening for client connections on that port.

All multiple-byte fields within a message are assumed to contain data in little-endian byte ordering, unless otherwise specified.

1.6 Applicability Statement

The Remote Desktop Protocol: Licensing Extension applies whenever a **Remote Desktop client** attempts to connect to a **terminal server** in Application Server mode and exchange of licensing information is required. The licensing protocol details provided in this document allow a server to authorize a client connection by issuing and verifying **CALs**.<1>

1.7 Versioning and Capability Negotiation

Only one version of the Remote Desktop Protocol: Licensing Extension exists and, therefore, no version negotiation is required with the client.

There is no negotiation of capabilities; however, the client advertises its capability to support the size of license data in the **wLicenseDetailLevel** field of the <u>Platform Challenge Response</u> <u>Data (section 2.2.2.5.1)</u> structure in the <u>Client Platform Challenge Response (section 2.2.2.5)</u>.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The Remote Desktop Protocol: Licensing Extension packets are transported using TCP/IP.

2.2 Message Syntax

The following sections contain the Remote Desktop Protocol: Licensing Extension message syntax.

2.2.1 Common Data Structures

2.2.1.1 Security Headers

Each licensing message PDU contains one of the RDP security headers specified in [MS-RDPBCGR] section 2.2.8.1.1.2.

2.2.1.1.1 Basic (TS_SECURITY_HEADER)

For the Basic security header, see [MS-RDPBCGR] section 2.2.8.1.1.2.1.

2.2.1.1.2 Non-FIPS (TS_SECURITY_HEADER1)

For the non-FIPS security header, [MS-RDPBCGR] section 2.2.8.1.1.2.2.

2.2.1.1.3 FIPS (TS_SECURITY_HEADER2)

For the FIPS security header, see [MS-RDPBCGR] section 2.2.8.1.1.2.3.

2.2.1.2 Licensing Preamble (LICENSE_PREAMBLE)

For the licensing preamble, see [MS-RDPBCGR] section 2.2.1.12.1.1.

2.2.1.3 Licensing Binary BLOB (LICENSE_BINARY_BLOB)

The Licensing binary large object (BLOB) is specified in [MS-RDPBCGR] section 2.2.1.12.1.2.

2.2.1.4 Server Certificate (SERVER_CERTIFICATE)

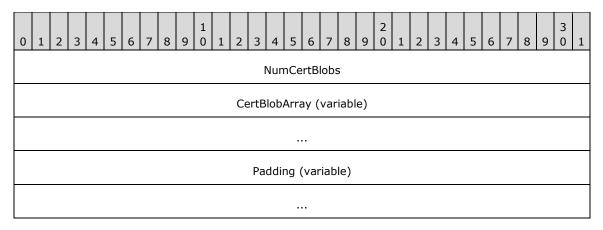
The Server Certificate structure is specified in [MS-RDPBCGR] section 2.2.1.4.3.1. This structure holds either a server proprietary certificate (see [MS-RDPBCGR] section 2.2.1.4.3.1.1) or an X.509 certificate chain (see section 2.2.1.4.2).

2.2.1.4.1 Server Proprietary Certificate (PROPRIETARYSERVERCERTIFICATE)

Proprietary certificates are specified in [MS-RDPBCGR] section 2.2.1.4.3.1.1.

2.2.1.4.2 X.509 Certificate Chain (X509 _CERTIFICATE_CHAIN)

The X.509 Certificate Chain packet contains a collection of X.509 certificates.



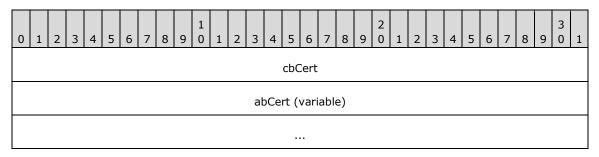
NumCertBlobs (4 bytes): A 32-bit unsigned integer. This field specifies the number of CertBlob structures in the CertBlobArray field. The minimum value MUST be 2 (self-signed license server certificate and terminal server certificate) and the maximum value MUST be 200 (clearing house issued license server certificate chain and terminal server certificate).

CertBlobArray (variable): An array of CertBlob structures. If the **license server** was issued an X.509 certificate chain by the **clearing house**, this array contains all the certificates from that chain, in root-certificate-first order. The second-to-last element in the array is the **license server certificate**. The **terminal server certificate** is the last element in this array. If the license server certificate is self-signed, this array contains only two elements: the license server certificate and the terminal server certificate. The license server certificate is also the root certificate, if the license server certificate is self-signed.

Padding (variable): A byte array of the length 8 + 4*NumCertBlobs is appended at the end the packet.

2.2.1.4.2.1 CertBlob (CERT_BLOB)

The CertBlob packet encapsulates an X.509 certificate (as specified in [RFC3280] section 4).



cbCert (4 bytes): A 32-bit unsigned integer. This field specifies the number of bytes in abCert.

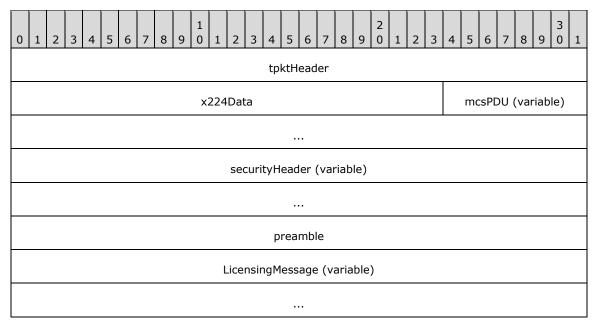
abCert (variable): A byte array of length **cbCert**. This field contains binary data representing a single X.509 certificate.

2.2.1.4.3 Proprietary Certificate (PROPRIETARYSERVERCERTIFICATE)

For proprietary certificates, see <a>[MS-RDPBCGR] section 2.2.1.4.3.1.1.

2.2.2 Licensing PDU (TS_LICENSING_PDU)

The **Licensing PDU** packet encapsulates licensing messages that are exchanged between a **client** and a **terminal server**.



tpktHeader (4 bytes): A TPKT header, as specified in [T123] section 8.

x224Data (3 bytes): An X.224 Class 0 Data TPDU, as specified in [X224] section 13.7.

mcsPDU (variable): If the PDU is being sent from the client to the server, this field MUST contain a variable-length PER-encoded MCS Send Data Request PDU, as specified in [T125] (the ASN.1 structure definition is specified in [T125] section 7 part 7). The userData field of the MCS Send Data Request PDU contains a security header, a licensing preamble, and the licensing message.

If the PDU is being sent from the server to the client, this field MUST contain a variable-length PER-encoded MCS Send Data Indication PDU, as specified in [T125] (the ASN.1 structure definition is specified in [T125] section 7 part 7). The **userData** field of the MCS Send Data Indication PDU contains a security header, a licensing preamble, and the licensing message.

securityHeader (variable): A security header. This field contains one of the following headers.

If the PDU is being sent from the client to the server:

The **securityHeader** field SHOULD contain at least a <u>Basic</u> security header (see [MS-RDPBCGR] section 2.2.8.1.1.2.1). If the embedded flags field contains the SEC_ENCRYPT(0x0008) flag, and the Encryption Level selected by the server (see sections 5.1.1 and 2.2.1.4.3) is ENCRYPTION_LEVEL_LOW (1), ENCRYPTION_LEVEL_CLIENT_COMPATIBLE (2), or ENCRYPTION_LEVEL_HIGH (3), the securityHeader SHOULD contain a <u>non-FIPS</u> security header.

If the PDU is being sent from the server to the client, then the format of the security header depends on the Encryption Level and Encryption Method selected by the server (see [MS-RDPBCGR] section 5.3.2 and 2.2.1.4.3). This field MUST contain one of the following headers:

- Basic Security Header (see [MS-RDPBCGR] section 2.2.8.1.1.2.1) if the Encryption Level selected by the server (see [MS-RDPBCGR] section 5.3.2 and 2.2.1.4.3) is ENCRYPTION_LEVEL_NONE (0) or ENCRYPTION_LEVEL_LOW (1) and the embedded flags field does not contain the SEC_ENCRYPT (0x0008) flag.
- A non-FIPS Security Header (see [MS-RDPBCGR] section 2.2.8.1.1.2.2) if the Encryption Level selected by the server (see [MS-RDPBCGR] section 5.3.2 and 2.2.1.4.3) is

ENCRYPTION_LEVEL_CLIENT_COMPATIBLE (2) or ENCRYPTION_LEVEL_HIGH (3) and the embedded flags field contains the SEC_ENCRYPT (0x0008) flag.

A <u>FIPS</u> Security Header (see [MS-RDPBCGR] section 2.2.8.1.1.2.3) if the Encryption Level selected by the server (see [MS-RDPBCGR] section 5.3.2 and 2.2.1.4.3) is ENCRYPTION_LEVEL_FIPS (4) and the embedded flags field contains the SEC_ENCRYPT (0x0008) flag.

If the Encryption Level is set to ENCRYPTION_LEVEL_CLIENT_COMPATIBLE (2), ENCRYPTION_LEVEL_HIGH (3), or ENCRYPTION_LEVEL_FIPS (4) and the flags field of the Security Header does not contain the SEC_ENCRYPT (0x0008) flag (the licensing PDU is not encrypted), then the field MUST contain a Basic Security Header (see [MS-RDPBCGR] section 2.2.8.1.1.2.1).

The SEC_LICENSE_ENCRYPT_CS (0x0200) and SEC_LICENSE_ENCRYPT_SC (0x0200) flags are used to communicate whether encryption is to be applied to the licensing PDUs (see [MS-RDPBCGR] section 2.2.8.1.1.2.1).

The **flags** field of the security header MUST contain the SEC_LICENSE_PKT (0x0080) flag (see [MS-RDPBCGR] section 2.2.8.1.1.2.1) for all the licensing messages.

preamble (4 bytes): A licensing preamble (see [MS-RDPBCGR] section 2.2.1.12.1.1) structure containing header information. The **bMsgType** field of the **preamble** structure specifies the type of the licensing message that follows the **preamble**.

The **bVersion** field of the **preamble** structure specifies the license protocol version and the client capability to handle extended error information in the Low nibble and High nibble respectively ([MS-RDPBCGR] section 2.2.1.12.1.1).

LicensingMessage (variable): A variable-length licensing message whose structure depends on the value of the **bMsgType** field in the **preamble** structure. The following table lists possible values for **bMsgType** and the associated licensing message (this table also appears in [MS-RDPBCGR] section 2.2.1.12.1.1).

Sent by the server.

Value	Meaning						
LICENSE_REQUEST 0x01	The Licensing PDU is a License Request PDU, and the LicensingMessage contains a SERVER_LICENSE_REQUEST (section <u>2.2.2.1</u>) structure.						
PLATFORM_CHALLENGE 0x02	The Licensing PDU is a Platform Challenge PDU, and the LicensingMessage contains a SERVER_PLATFORM_CHALLENGE (section 2.2.2.4) structure.						
NEW_LICENSE 0x03	The Licensing PDU is a New License PDU, and the LicensingMessage contains a SERVER_NEW_LICENSE (section <u>2.2.2.7</u>) structure.						
UPGRADE_LICENSE 0x04	The Licensing PDU is an Upgrade License PDU, and the LicensingMessage contains a SERVER_UPGRADE_LICENSE (section 2.2.2.6) structure.						

Sent by the client.

Value	Meaning
LICENSE_INFO 0x12	The Licensing PDU is a License Info PDU, and the LicensingMessage contains a CLIENT_LICENSE_INFO (section 2.2.2.3) structure.
NEW_LICENSE_REQUEST 0x13	The Licensing PDU is a New License Request PDU, and the LicensingMessage contains a CLIENT_NEW_LICENSE_REQUEST

Value	Meaning
	(section <u>2.2.2.2</u>) structure.
PLATFORM_CHALLENGE_RESPONSE 0x15	The Licensing PDU is a Platform Challenge Response PDU, and the LicensingMessage contains a CLIENT_PLATFORM_CHALLENGE_RESPONSE (section 2.2.2.5) structure.

Sent by either the client or the server.

Value	Meaning
ERROR_ALERT 0xFF	The Licensing PDU is a Licensing Error Message PDU, and the LicensingMessage contains a LICENSE_ERROR_MESSAGE (section <u>2.2.2.8</u>) structure.

2.2.2.1 Server License Request (SERVER_LICENSE_REQUEST)

The Server License Request packet is sent to the client to initiate the RDP licensing handshake.

0	1	2	3	4	5	6	7	8	9	1 0	1	2	3	4	5	6	7	8	9	2 0	1	2	3	4	5	6	7	8	9	3	1
												Se	rvei	rRaı	nd	om (32	byt	es)												
												F	Proc	luct	Ini	fo (v	aria	able)												
												Key	/Exc	char	nge	eList	(va	arial	ble))											
												Ser	ver	Cer	tifi	icate	(va	arial	ble))											
	ScopeList (variable)																														

ServerRandom (32 bytes): A 32-byte array containing a random number. This random number is created using a cryptographically secure pseudo-random number generator and is used to generate licensing encryption keys (see section 5.1.2). These keys are used to encrypt licensing data in subsequent licensing messages (see sections 5.1.3 and 5.1.4).

ProductInfo (variable): A variable-length <u>Product Information</u> structure. This structure contains the details of the product license required for connecting to the **terminal server**.

KeyExchangeList (variable): A <u>Licensing Binary BLOB</u> structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_KEY_EXCHG_ALG_BLOB (0x000D). This BLOB contains the list of 32-bit unsigned integers specifying key exchange algorithms that the server supports. The terminal server supports only one key exchange algorithm as of now, so the BLOB contains the following value.

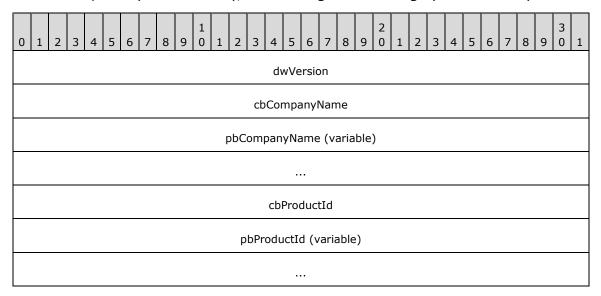
Value	Meaning
KEY_EXCHANGE_ALG_RSA 0x00000001	Indicates RSA key exchange algorithm with a 512-bit asymmetric key. <2>

ServerCertificate (variable): A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_CERTIFICATE_BLOB (0x0003). This BLOB contains the terminal server certificate (see section 2.2.1.4). The terminal server can choose not to send the certificate by setting the **wblobLen** field in the Licensing Binary BLOB structure to 0. If encryption is in effect and is already protecting RDP traffic, the licensing protocol MAY<3> choose not to send the server certificate (for RDP security measures, see [MS-RDPBCGR] sections 5.3 and 5.4). If the licensing protocol chooses not to send the server certificate, then the client uses the public key obtained from the server certificate sent as part of Server Security Data in the Server MCS Connect Response PDU (see [MS-RDPBCGR] section 2.2.1.4).

ScopeList (variable): A variable-length Scope List structure that contains a list of entities that issued the **client license**. This list is used by the client in conjunction with **ProductInfo** to search for an appropriate license in its **license store**.<4>

2.2.2.1.1 Product Information (PRODUCT_INFO)

The **Product Information** packet contains the details of the product license that is required for connecting to the **terminal server**. The client uses this structure together with the <u>scope list</u> to search for and identify an appropriate license in its **license store**. Depending on the outcome of the search, the client sends a **Client New License Request** (section <u>2.2.2.2</u>), **Client License Information** packet (section <u>2.2.2.3</u>), or **Licensing Error Message** (section <u>2.2.2.8</u>) to the server.



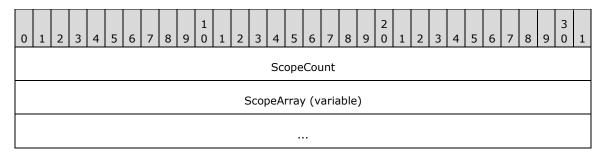
dwVersion (4 bytes): A 32-bit unsigned integer that contains the license version information. The high-order word contains the major version of the operating system on which the terminal server is running, while the low-order word contains the minor version.<a href="mailto: 5 <a href="mailto:s

- **cbCompanyName (4 bytes):** An unsigned 32-bit integer that contains the number of bytes in the **pbCompanyName** field, including the terminating null character. This value MUST be greater than zero.
- **pbCompanyName (variable):** Contains a null-terminated **Unicode string** that specifies the company name.<a><6>
- **cbProductId (4 bytes):** An unsigned 32-bit integer that contains the number of bytes in the **pbProductId** field, including the terminating null character. This value MUST be greater than zero.
- **pbProductId (variable):** Contains a null-terminated Unicode string that identifies the type of the license that is required by the terminal server. It MAY have the following string value.

Value	Meaning
"A02"	Per device or per user license

2.2.2.1.2 Scope List (SCOPE_LIST)

The Scope List packet contains a list of entities that issued a **client license**. The client uses the name of the issuers in the <u>Scope</u> structures of this list in conjunction with the <u>Product Information</u> structure to search the **license store** for a matching client license.

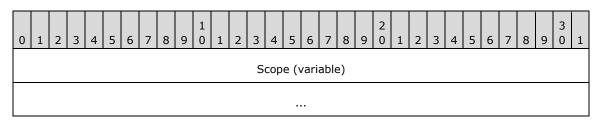


ScopeCount (4 bytes): A 32-bit unsigned integer containing the number of elements in the **ScopeArray** field.

ScopeArray (variable): An array of Scope structures containing **ScopeCount** elements. <7>

2.2.2.1.2.1 Scope (SCOPE)

The Scope packet contains the name of an entity that issued a client license.



Scope (variable): A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_SCOPE_BLOB (0x000E). This BLOB contains the name of a license issuer in null-terminated ANSI characters, as specified in [ISO/IEC-8859-1], string format, with an implementation-specific valid code page.

2.2.2.2 Client New License Request (CLIENT_NEW_LICENSE_REQUEST)

The Client New License Request packet is sent to a server when the client cannot find a license matching the product information provided in the <u>Server License Request</u> message. This message is interpreted as a new license request by the server, and the server SHOULD attempt to issue a new license to the client on receipt of this message.

0	1	2	3	4	5	6	7	8	9	1	1	2	З	4	(1)	5 6	7	8	9	2	1	2	3	4	5	6	7	8	9	3	1
												Pre	fer	red	Κe	eyExc	har	nge/	Alg												
														Ρl	at	form:	Id														
												Cli	ent	Ran	nde	om (32 I	oyte	es)												
										Er	ncry	/pte	dPr	reM	as	sterSe	ecre	et (v	/ari	able	e)										
												Clie	entl	Jser	rN	lame	(va	riat	ole)												
											Cl	ien	tMa	chi	ne	eNam	e (\	vari	abl	e)											

PreferredKeyExchangeAlg (4 bytes): A 32-bit unsigned integer that indicates the key exchange algorithm chosen by the client. It MUST be set to KEY_EXCHANGE_ALG_RSA (0x00000001), which indicates an RSA-based key exchange with a 512-bit asymmetric key. <8>

PlatformId (4 bytes): A 32-bit unsigned integer. This field is composed of two identifiers: the operating system identifier and the independent software vendor (ISV) identifier. The platform ID is composed of the logical OR of these two values.

The most significant byte of the **PlatformId** field contains the operating system version of the client. $\leq 9 \geq$

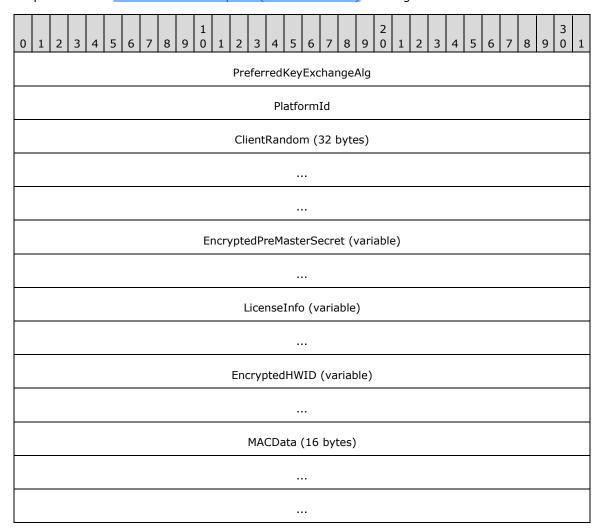
The second most significant byte of the **PlatformId** field identifies the ISV that provided the client image. <10>

ClientRandom (32 bytes): A 32-byte random number generated by the client using a cryptographically secure pseudo-random number generator. The ClientRandom and ServerRandom (see section 2.2.2.1) values, along with the data in the EncryptedPreMasterSecret field, are used to generate licensing encryption keys (see section 5.1.2). These keys are used to encrypt licensing protocol messages (see sections 5.1.3 and 5.1.4).

- **EncryptedPreMasterSecret (variable):** A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_RANDOM_BLOB (0x0002). This BLOB contains an encrypted 48-byte random number. For instructions on how to encrypt this random number, see section 5.1.1.1.
- ClientUserName (variable): A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_CLIENT_USER_NAME_BLOB (0x000F). This BLOB contains the client user name string in null-terminated ANSI character set format and is used along with the ClientMachineName BLOB to keep track of licenses issued to clients.
- **ClientMachineName (variable):** A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_CLIENT_MACHINE_NAME_BLOB (0x0010). This BLOB contains the client machine name string in null-terminated ANSI character set format and is used along with the **ClientUserName** BLOB to keep track of licenses issued to clients.

2.2.2.3 Client License Information (CLIENT_LICENSE_INFO)

The Client License Information packet is sent by a client that already has a license issued to it in response to the Server License Request (section 2.2.2.1) message.

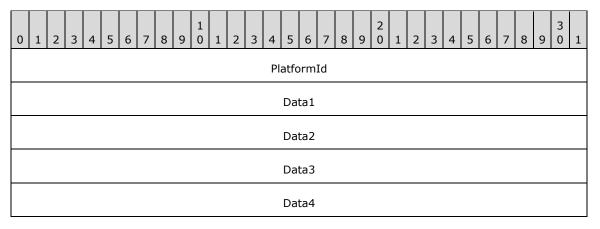


PreferredKeyExchangeAlg (4 bytes): The content and format of this field are the same as the **PreferredKeyExchangeAlg** field of the <u>Client New License Request (section 2.2.2.2)</u> message.

- **PlatformId (4 bytes):** The content and format of this field are the same as the **PlatformId** field of the Client New License Request message.
- **ClientRandom (32 bytes):** The content and format of this field are the same as the **ClientRandom** field of the Client New License Request message.
- **EncryptedPreMasterSecret (variable):** The content and format of this field are the same as the **EncryptedPreMasterSecret** field of the Client New License Request message.
- **LicenseInfo (variable):** A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2) of type BB_DATA_BLOB (0x0001). This BLOB contains the CAL (see the **pbLicenseInfo** field in section 2.2.2.6.1) that is retrieved from the client's **license store**.
- **EncryptedHWID (variable):** A Licensing Binary BLOB structure (see [MS-RDPBCGR] section 2.2.1.12.1.2). This BLOB contains a <u>Client Hardware Identification (section 2.2.2.3.1)</u> structure encrypted with the licensing encryption keys (see section <u>5.1.2</u>), using **RC4** (for instructions on how to perform the encryption, see section <u>5.1.3</u>).
- **MACData (16 bytes):** An array of 16 bytes containing an **MD5 digest (Message Authentication Code (MAC)**) that is generated over the unencrypted Client Hardware Identification structure. For instructions on how to generate this message digest, see section <u>5.1.5</u>; for a description of how the server uses the **MACData** field to verify the integrity of the Client Hardware Identification structure, see section <u>3.1.5.1</u>.

2.2.2.3.1 Client Hardware Identification (CLIENT_HARDWARE_ID)

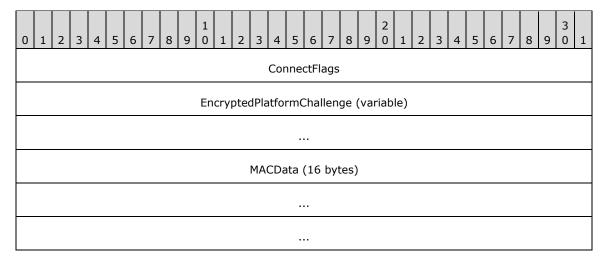
The Client Hardware Identification packet is used for uniquely identifying a **Remote Desktop client** for the purpose of issuing a license. A **license server** uses the content of this structure as an index into the issued licenses in its database.



- **PlatformId (4 bytes):** The content and format of this field are the same as the **PlatformId** field of the Client New License Request.
- **Data1 (4 bytes):** A 32-bit unsigned integer containing client hardware-specific data. This field MUST contain a number that helps the server uniquely identify the client.
- **Data2 (4 bytes):** A 32-bit unsigned integer containing client hardware-specific data. This field MUST contain a number that helps the server uniquely identify the client.
- **Data3 (4 bytes):** A 32-bit unsigned integer containing client hardware-specific data. This field MUST contain a number that helps the server uniquely identify the client.
- **Data4 (4 bytes):** A 32-bit unsigned integer containing client hardware-specific data. This field MUST contain a number that helps the server uniquely identify the client.

2.2.2.4 Server Platform Challenge (SERVER_PLATFORM_CHALLENGE)

The Server Platform Challenge packet is sent from the server to the client after receiving the <u>Client New License Request (section 2.2.2.2)</u> or certain cases of <u>Client License Information (section 2.2.2.3)</u>. For more information on Client License Information and when Server Platform Challenge is sent, see <u>Processing Client License Information (section 3.2.5.3)</u>.



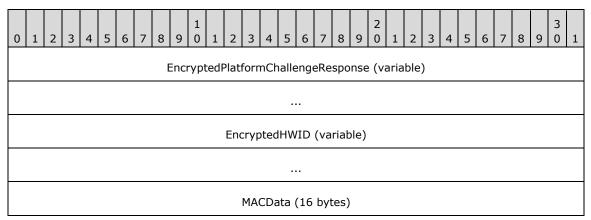
ConnectFlags (4 bytes): Reserved.

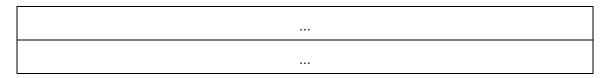
EncryptedPlatformChallenge (variable): A Licensing Binary BLOB<a>12> structure (see MS-RDPBCGR] section 2.2.1.12.1.2). This BLOB contains the encrypted server platform challenge data. The server platform challenge data is a random string generated by the server and is encrypted with the licensing encryption key (see section 5.1.2) using **RC4** (for instructions on how to perform the encryption, see section 5.1.3).

MACData (16 bytes): An array of 16 bytes containing an **MD5 digest (MAC)** generated over the unencrypted platform challenge BLOB. For instructions on how to generate this message digest, see section 5.1.5; for a description of how the client uses the **MACData** field to verify the integrity of the platform challenge BLOB, see section 3.1.5.1.

2.2.2.5 Client Platform Challenge Response (CLIENT_PLATFORM_CHALLENGE_RESPONSE)

The Client Platform Challenge Response packet is sent by the client in response to the <u>Server Platform Challenge (section 2.2.2.4)</u> message.





EncryptedPlatformChallengeResponse (variable): A LICENSE_BINARY_BLOB<a>13> structure (as specified in <a>[MS-RDPBCGR] section 2.2.1.12.1.2) of <a>wBlobType BB_ENCRYPTED_DATA_BLOB (0x0009). This BLOB contains the encrypted <a>Platform Challenge Response Data (section 2.2.2.5.1) generated by the client and is encrypted with the licensing encryption key (see section <a>5.1.2), using <a>RC4 (for instructions on how to perform the encryption, see section <a>5.1.3).

EncryptedHWID (variable): A LICENSE_BINARY_BLOB structure (as specified in [MS-RDPBCGR] section 2.2.1.12.1.2) of **wBlobType** BB_ENCRYPTED_DATA_BLOB (0x0009). This BLOB contains the encrypted <u>Client Hardware Identification (section 2.2.2.3.1)</u> and is encrypted with the licensing encryption key (see section 5.1.2) using RC4 (for instructions on how to perform the encryption, see section 5.1.3).

MACData (16 bytes): An array of 16 bytes containing an **MD5 digest (MAC)** generated over the Platform Challenge Response Data and decrypted Client Hardware Identification. For instructions on how to generate this message digest, see section <u>5.1.5</u>; for a description of how the server uses the **MACData** field to verify the integrity of the Client Hardware Identification and the Platform Challenge Response Data, see section <u>3.1.5.1</u>.

2.2.2.5.1 Platform Challenge Response Data (PLATFORM_CHALLENGE_RESPONSE_DATA)

The Platform Challenge Response Data packet contains information pertaining to the client's license handling capabilities and the Client Platform Challenge data sent by the server in the Server Platform Challenge.

0	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	6	7	8	9	2	1	2	3	4	5	6	7	8	9	3	1
						٧	√Ve	rsio	n													wC	Clier	ntTy	/pe						
	wLicenseDetailLevel													cbChallenge																	
												р	bCh	alle	eng	e (v	/aria	able	e)												

wVersion (2 bytes): A 16-bit unsigned integer that contains the platform challenge version. This field MUST be set to 0x0100.

wClientType (2 bytes): A 16-bit unsigned integer that represents the operating system type of the client and MAY contain one of following values. <14>

Value	Meaning
WIN32_PLATFORMCHALLENGE_TYPE 0x0100	Win32 Platform Challenge Type.
WIN16_PLATFORMCHALLENGE_TYPE 0x0200	Win16 Platform Challenge Type.
WINCE_PLATFORMCHALLENGE_TYPE	WinCE Platform Challenge Type.

Value	Meaning
0x0300	
OTHER_PLATFORMCHALLENGE_TYPE 0xFF00	Other Platform Challenge Type.

wLicenseDetailLevel (2 bytes): A 16-bit unsigned integer. This field represents the capability of the client to handle license data. RDP version 5.0 and later clients SHOULD advertise support for large (6.5 KB or higher) licenses by setting the detail level to LICENSE_DETAIL_DETAIL (0x0003). The following table lists valid values for this field.

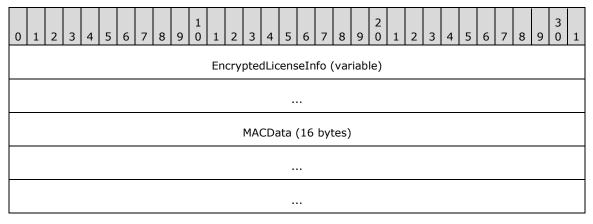
Value	Meaning
LICENSE_DETAIL_SIMPLE 0x0001	License Detail Simple (client license certificate and license server certificate without issuer details).
LICENSE_DETAIL_MODERATE 0x0002	License Detail Moderate (client license certificate chain up to license server's certificate issuer).
LICENSE_DETAIL_DETAIL 0x0003	License Detail Detail (client license certificate chain up to root certificate).

cbChallenge (2 bytes): A 16-bit unsigned integer that indicates the number of bytes of binary data contained in the **pbChallenge** field.

pbChallenge (variable): Contains the decrypted Client Platform Challenge data sent by the server in the Server Platform Challenge message.

2.2.2.6 Server Upgrade License (SERVER_UPGRADE_LICENSE)

The Server Upgrade License packet is sent from the server to the client if the client presents an existing license and the server determines that this license SHOULD be upgraded. This message contains the upgraded license information, which the client uses to replace the previously held license in the client's **license store**.

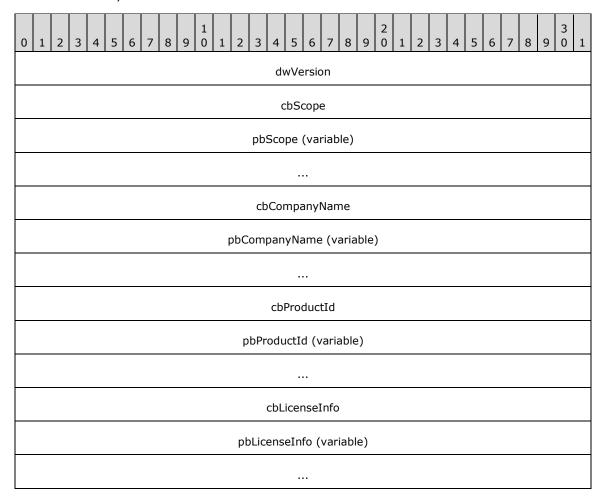


EncryptedLicenseInfo (variable): A LICENSE_BINARY_BLOB structure (as specified in [MS-RDPBCGR] section 2.2.1.12.1.2) of **wBlobType** BB_ENCRYPTED_DATA_BLOB (0x0009).<15> This BLOB contains the encrypted New License Information (section 2.2.2.6.1) packet and is encrypted with the licensing encryption key (see section 5.1.2), using **RC4** (for instructions on how to perform the encryption, see section 5.1.3).

MACData (16 bytes): An array of 16 bytes containing an **MD5 digest (Message Authentication Code)** generated over the unencrypted New License Information structure. For instructions on how to generate this message digest, see section <u>5.1.5</u>; for a description of how the server uses the **MACData** field to verify the integrity of the New License Information packet, see section <u>3.1.5.1</u>.

2.2.2.6.1 New License Information (NEW_LICENSE_INFO)

The New License Information packet contains the actual **client license** and associated indexing information. The client stores the license in its **license store** using the indexing information, and uses it in subsequent connections. The **dwVersion**, **pbScope**, **pbCompanyName**, and **pbProductId** fields are used by the client to index the licenses in the client's license store.



dwVersion (4 bytes): The content and format of this field are the same as the **dwVersion** field of the <u>Product Information (section 2.2.2.1.1)</u> structure.

cbScope (4 bytes): A 32-bit unsigned integer that contains the number of bytes in the string contained in the **pbScope** field.

pbScope (variable): Contains the NULL-terminated **ANSI character set** string giving the name of the issuer of this license. For example, for licenses issued by TailSpin Toys, this field contains the string "TailSpin Toys".

cbCompanyName (4 bytes): The content and format of this field are the same as the **cbCompanyName** field of the Product Information structure.

- **pbCompanyName (variable):** The content and format of this field are the same as the **pbCompanyName** field of the Product Information structure.
- **cbProductId (4 bytes):** The content and format of this field are the same as the **cbProductId** field of the Product Information structure.
- **pbProductId (variable):** The content and format of this field are the same as the **pbProductId** field of the Product Information structure.
- **cbLicenseInfo (4 bytes):** A 32-bit unsigned integer that contains the number of bytes of binary data in the **pbLicenseInfo** field.
- **pbLicenseInfo (variable):** This field contains the CAL issued to the client by the license server. This license consists of an X.509 certificate chain generated by the license server (encoding of the license information in the X.509 leaf certificate is described in section 2.2.2.9). The binary data contained in this field is opaque to the client. The client sends this information back to the server in the <u>Client License Information</u> message.

2.2.2.7 Server New License (SERVER_NEW_LICENSE)

The Server New License message is sent from the server to the client when a new license is issued to the client. The structure and the content of this message are the same as the <u>Server Upgrade License</u> message.

2.2.2.8 Licensing Error Message (LICENSE_ERROR_MESSAGE)

The **Licensing Error Message** specified in [MS-RDPBCGR] section 2.2.1.12.1.3 can be used by both client and server.

If the client supports extended error, the **terminal server** includes information relevant to the error code in the **bbErrorInfo** field of the **Licensing Error Message**. For more details, see [MS-RDPBCGR] section 2.2.1.12.1.3.

2.2.2.9 X.509 Certificate Extensions

License information stored in the client license store contains the certificates and the associated certificate chain generated by a license server. Certificates that **license servers** issue to **terminal servers** and **Remote Desktop clients** conform to the X.509 Version 3 format (see [[RFC3280]]) and are signed using the **object identifier (OID)** "1.3.14.3.2.29" (OID_OIWSEC_sha1RSASign) (for more information, see [[MSDN-CAI]]). The certificates generated by the license server include the following extension OIDs:

- "1.3.6.1.4.1.311.18.4" (szOID PKIX HYDRA CERT VERSION)
- "1.3.6.1.4.1.311.18.2" (szOID_PKIX_MANUFACTURER)
- "1.3.6.1.4.1.311.18.5" (szOID_PKIX_LICENSED_PRODUCT_INFO)
- "1.3.6.1.4.1.311.18.6" (szOID_PKIX_MS_LICENSE_SERVER_INFO)
- "1.3.6.1.4.1.311.18.7" (szOID PKIS PRODUCT SPECIFIC OID)

More than one license can be issued to a given client. In this case the license store of the client contains multiple licenses as leaf nodes, each of these licenses being issued by the same license server or different license servers.

The license server certificate can be either a self-signed certificate or a certificate issued by the **clearing house**.

2.2.2.9.1 Licensed Product Info (LICENSED_PRODUCT_INFO)

The certificate extension with OID "1.3.6.1.4.1.311.18.5" (szOID_PKIX_LICENSED_PRODUCT_INFO) contains product information specific to a license issued to a client and is encoded by the Licensed Product Info structure.

0	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	5 6	7	8	9	2	1	2	3	4	5	6	7	8	9	3	1
											•			١	Ve	ersion	1														
														Lice	en	iseCo	unt														
	Platf													tformId																	
												ı	Lice	ense	ed	lLang	uag	eId													
	RequestedProductIdOffset RequestedProductIdByteCount																														
	AdjustedProductIdOffset																AdjustedProductIdByteCount														
	LicensedVersionInfoOffset																LicensedVersionInfoCount														
											Re	eque	este	edPi	ro	ductId (variable)															
											Α	dju	ste	dPr	od	ductIo	d (v	aria	able	e)											
LicensedVersionInfo																															

Version (4 bytes): A 32-bit unsigned integer that specifies the version of the LICENSED_PRODUCT_INFO structure.

LicenseCount (4 bytes): A 32-bit unsigned integer that specifies the number of licenses (of the type defined by the LICENSED_PRODUCT_INFO structure) that have been issued to the client.

PlatformId (4 bytes): A 32-bit unsigned integer that is sent by the client while requesting a license. The content and format of this field are the same as the **PlatformId** field of the Client New License Request (section 2.2.2.2) message.

LicensedLanguageId (4 bytes): A 32-bit unsigned integer that specifies the active language identifier of the license server that issued the license (for a list of language identifiers, see [[MSDN-MUI]]).

RequestedProductIdOffset (2 bytes): A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the LICENSED_PRODUCT_INFO structure to the **RequestedProductId** field.

- **RequestedProductIdByteCount (2 bytes):** A 16-bit unsigned integer that specifies the size in bytes of the **RequestedProductId** field.
- **AdjustedProductIdOffset (2 bytes):** A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the LICENSED_PRODUCT_INFO structure to the **AdjustedProductId** field.
- **AdjustedProductIdByteCount (2 bytes):** A 16-bit unsigned integer that specifies the size in bytes of the **AdjustedProductId** field.
- **LicensedVersionInfoOffset (2 bytes):** A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the LICENSED_PRODUCT_INFO structure to the **LicensedVersionInfo** field.
- **LicensedVersionInfoCount (2 bytes):** A 16-bit unsigned integer that specifies the number of Licensed Version Info (section 2.2.2.9.1.1) structures encapsulated in the **LicensedVersionInfo** field. This field MUST be set to 0x0001.
- **RequestedProductId (variable):** A variable-length array of bytes that specifies the product ID of the license.
- **AdjustedProductId (variable):** A variable-length array of bytes that specifies the final product ID of the license (determined by the license server).

LicensedVersionInfo (8 bytes): A Licensed Version Info (section 2.2.2.9.1.1) structure that contains versioning information and flags indicating the license type and enforcement status.

2.2.2.9.1.1 Licensed Version Info (LICENSED_VERSION_INFO)

The Licensed Version Info structure contains versioning information and flags indicating the license type and enforcement status.

)	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	6	7	8	9	2	1	2	3	4	5	6	7	8	9	3	1
			ı	Proc	duct	Lice	ens	еМа	ajor	Ver	sior	1							ı	Prod	duct	tLic	ens	еМі	nor	Ver	sior	1			
													Pro	duc	tLic	ens	seFl	ags													

- **ProductLicenseMajorVersion (2 bytes):** A 16-bit unsigned integer that specifies the major version of the Remote Desktop Session Host product for which the license has been issued.
- **ProductLicenseMinorVersion (2 bytes):** A 16-bit unsigned integer that specifies the minor version of the Remote Desktop Session Host product for which the license has been issued.

ProductLicenseFlags (4 bytes): A 32-bit unsigned integer that contains product license flags.

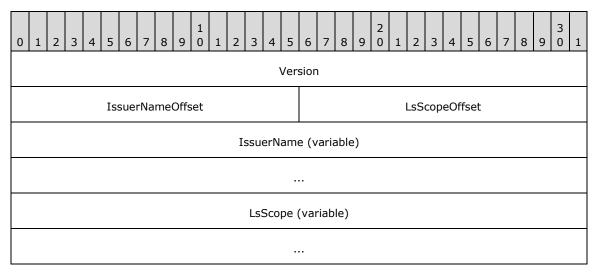
Flag	Meaning
LICENSE_ENFORCED 0x00008000	Indicates that the license is enforced.
RTM_LICENSE 0x00800000	Indicates that the license is an RTM license. If this flag is not set, then the license is a beta license.
TEMPORARY_LICENSE 0x80000000	Indicates that the license is a temporary license. If this flag is not set, then the license is a permanent license.

2.2.2.9.2 MS License Server Info

The certificate extension with OID "1.3.6.1.4.1.311.18.6" (szOID_PKIX_MS_LICENSE_SERVER_INFO) contains information about the license server that issued a license and is encoded by the MS License Server Info Version 1 (section 2.2.2.9.2.1) and Version 2 (section 2.2.2.9.2.2) structures.

2.2.2.9.2.1 MS License Server Info Version 1 (MS_LICENSE_SERVER_INFO_V1)

The MS License Server Info Version 1 structure contains information about the license server that issued a license.



Version (4 bytes): A 32-bit unsigned integer that specifies the version of the MS_LICENSE_SERVER_INFO_V1 structure. This field MUST be set to 0x0001000.

IssuerNameOffset (2 bytes): A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the MS_LICENSE_SERVER_INFO_V1 variable data to the **IssuerName** field. This field MUST be set to zero.

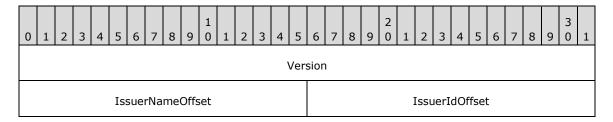
LsScopeOffset (2 bytes): A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the MS_LICENSE_SERVER_INFO_V1 variable data to the **LsScope** field.

IssuerName (variable): A null-terminated Unicode string that specifies the name of the license server that issued the license.

LsScope (variable): A null-terminated Unicode string that specifies the scope of the license server. If the license server is domain joined then this field contains the domain name, and if the license server is not domain joined then it contains the workgroup name.

2.2.2.9.2.2 MS License Server Info Version 2 (MS_LICENSE_SERVER_INFO_V2)

The MS License Server Info Version 2 structure contains information about the license server that issued a license.



LsScopeOffset	IssuerName (variable)						
IssuerId	(variable)						
LsScope	(variable)						

- **Version (4 bytes):** A 32-bit unsigned integer that specifies the version of the MS_LICENSE_SERVER_INFO_V2 structure. This field MUST be set to 0x0003000.
- **IssuerNameOffset (2 bytes):** A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the MS_LICENSE_SERVER_INFO_V2 variable data to the **IssuerName** field. This field MUST be set to zero.
- **IssuerIdOffset (2 bytes):** A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the MS_LICENSE_SERVER_INFO_V2 variable data to the **IssuerId** field.
- **LsScopeOffset (2 bytes):** A 16-bit unsigned integer that specifies the offset (in bytes) from the beginning of the MS_LICENSE_SERVER_INFO_V2 variable data to the **LsScope** field.
- **IssuerName (variable):** A null-terminated Unicode string that specifies the name of the license server that issued the license.
- **IssuerId (variable):** A null-terminated Unicode string that specifies the product ID of the license server that issued the license.
- **LsScope (variable):** A null-terminated Unicode string that specifies the scope of the license server. If the license server is domain joined then this field contains the domain name, and if the license server is not domain joined then it contains the workgroup name.

3 Protocol Details

3.1 Common Details

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

3.1.5.1 Message Integrity Checking

Both the **server** and **client** add a **MAC** checksum to licensing messages to allow the recipient to validate the integrity of the licensing data that is contained in the message.

The sender MUST generate the MAC checksum (see section <u>5.1.5</u>) on selected fields of a licensing message (for fields that are used to generate the MAC checksum, see the **MACData** fields in sections <u>2.2.2.3</u> through <u>2.2.2.6</u>). It then MUST encrypt those fields of the licensing message (see <u>Encrypting Licensing Session Data (section 5.1.3)</u>). Next, it MUST transmit the licensing message (see <u>Licensing PDU (section 2.2.2)</u>) containing the encrypted fields and the MAC checksum to the receiver.

The receiver MUST decrypt the encrypted fields of the received licensing message (see Decrypting Licensing Session Data (section 5.1.4)), and then MUST generate a MAC checksum over the decrypted fields. Next, it MUST compare the generated checksum with the received checksum. If they do not match, The receiver MAY send a **Licensing Error Message** (section 2.2.2.8) with an error code ERR INVALID MAC and a state transition code of ST TOTAL ABORT to the sender.

3.1.5.2 Sending Licensing Error Messages

Both the client and the server can send a **Licensing Error Message** (section <u>2.2.2.8</u>). Whenever an error message is sent, the message type in the **Licensing Preamble** (section <u>2.2.1.2</u>) MUST be set to ERROR_ALERT (0xFF). For the PDU, see [MS-RDPBCGR] section 2.2.1.12.1.3

The client and the server MUST also set the appropriate state transition value in the **dwStateTransition** field in the PDU. This is used to determine the next action to take. For state transitions, see **Processing Licensing Error Messages** (section 3.1.5.3).

A more detailed reason for the error MAY be passed by using the **bbErrorInfo** BLOB. The BLOB type MUST be BB_ERROR_BLOB (see [MS-RDPBCGR] sections 2.2.1.12.1.2 and 2.2.1.12.1.3). This BLOB is empty if no detailed reason for the error is passed.

3.1.5.3 Processing Licensing Error Messages

Both the server and the client can send a **Licensing Error Message** (section 2.2.2.8) and indicate a state transition with the error code. Possible state transitions include the following:

 ST_TOTAL_ABORT aborts the licensing protocol. The server and the client can both send this state transition. Aborting the licensing protocol MAY disconnect the RDP client connection, depending on the server licensing system.

ST_NO_TRANSITION is used when the server is to indicate success. It MUST set the **dwErrCode** field to STATUS_VALID_CLIENT and state transition to ST_NO_TRANSITION (see [MS-RDPBCGR] section 2.2.1.12.1.3).

- ST_RESET_PHASE_TO_START resets the licensing protocol and client goes back to "CLIENT LICENSING AWAIT" state and server goes back to "SERVER LICENSING BEGIN" state.
- ST_RESEND_LAST_MESSAGE makes the client and server resend the previously sent message.

ST_RESET_PHASE_TO_START and ST_RESEND_LAST_MESSAGE are not shown in the **Client State Transition** diagram (section 3.1.5.3.1) and **Server State Transition** diagram (section 3.1.5.3.2), as they can cause confusion. <17>

3.1.5.3.1 Client State Transition

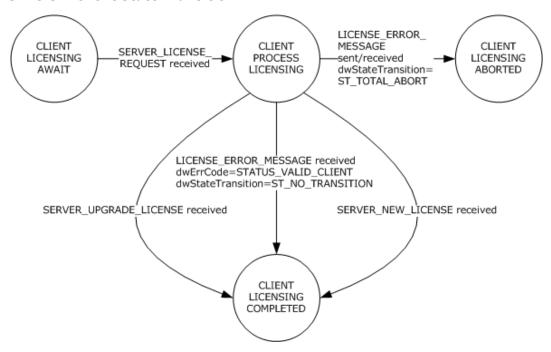


Figure 5: Client state transition

3.1.5.3.2 Server State Transition

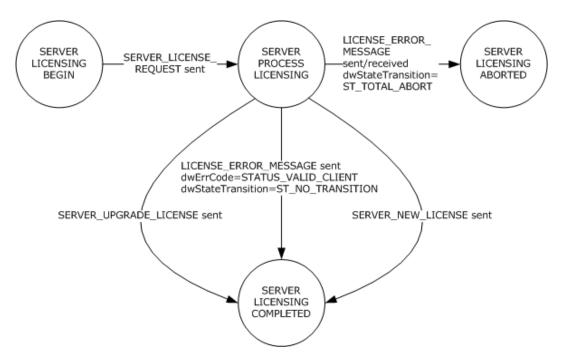


Figure 6: Server state transition

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

3.2 Server Details

3.2.1 Abstract Data Model

Refer to the common details abstract data model in section 3.1.1.

3.2.1.1 Server Random

The Server Random is a 32-byte random number created using a cryptographically secure pseudorandom number generator. It is used to generate encryption keys that are used in later stages of the licensing protocol; see <u>Server License Request</u> (section 2.2.2.1).

The server random is unique for a given client connection. It is created at the beginning of the licensing protocol and is destroyed after the licensing protocol is completed. For information on how the Server Random is used, see sections 2.2.2.1 and 5.1.1.

3.2.1.2 Product Information

The <u>Product Information</u> packet contains the operating system version, company name, and product ID. This information is used by the client to search for a previously issued CAL stored in the client's **license store**.

For example, the content of the Product Information structure can be as follows.

```
dwVersion = 0x00050002
pbCompanyName = "Microsoft Corporation"
pbProductId = "A02"
```

3.2.1.3 Server Certificate

A <u>server certificate</u> MUST be either a <u>proprietary certificate</u> or an X.509 certificate. An X.509 certificate chain is issued to a **terminal server** by a **license server**. If a terminal server has not received an X.509 certificate from a license server, it generates a proprietary certificate and sends it in the **ServerCertificate** field of a Server License Request message.

3.2.1.4 Key Exchange List

The Key Exchange List is a list of key exchange algorithms supported by the server. See the **KeyExchangeList** field in the Server License Request message.

3.2.1.5 Scope List

The Scope List describes the list of issuers for the CAL.<18>

3.2.1.6 Platform Challenge

The **Platform Challenge** is a random string generated by the server. This string is encrypted (section <u>5.1.3</u>) with the licensing encryption key using **RC4** and sent in the **EncryptedPlatformChallenge** field of the **Server Platform Challenge** (section <u>2.2.2.4</u>) message. It is created at the beginning of the licensing protocol and destroyed when the licensing protocol is completed.

3.2.1.7 License

The license is an X.509 certificate chain that contains a certificate issued by the **license server** to the client. The leaf X.509 certificate in the certificate chain has the following information:

- Version: The version of the terminal server that this client is allowed to access.
- Type: Whether the license is temporary or permanent.
- Validity Period: The period of validity of this license.

The server MUST send the license to the client in the <u>Server New License</u> message or the <u>Server Upgrade License</u> message.

3.2.1.8 ClientUserName

The **ClientUserName** is the name of the user initiating the remote connection to the **terminal server**. The **ClientUserName** is sent from the client to the terminal server in the CLIENT NEW LICENSE REQUEST message (section 2.2.2.2).

3.2.1.9 ClientMachineName

The **ClientMachineName** is the name of the device from which the remote connection is made to the terminal server. This information is sent from the client to the terminal server in the CLIENT_NEW_LICENSE_REQUEST message (section <u>2.2.2.2</u>).

3.2.1.10 Encryption Keys

The server uses the 128-bit licensing encryption key (section <u>5.1.2</u>) to encrypt the **EncryptedPlatformChallenge** field in the **Server Platform Challenge** message (section <u>2.2.2.4</u>), and decrypt the **EncryptedHWID** field in the **Client License Information** (section <u>2.2.2.3</u>) and **Client Platform Challenge** (section <u>2.2.2.5</u>) messages.

3.2.1.11 Server Licensing States

Server Licensing States is an enumeration of different licensing states that the server can have. Server licensing state transition is shown in the diagram in section 3.1.5.3.2. The following are the possible licensing states:

Server Licensing Begin: The **terminal server** licensing protocol starts in the "Server Licensing Begin" state.

Server Process Licensing: A successful <u>SERVER LICENSE REQUEST</u> (section 2.2.2.1) call brings the server to the "Server Process Licensing" state. In this state, the terminal server processes the <u>Client New License Requests</u> or <u>Client License Information</u> (as specified in sections <u>3.2.5.2</u> and <u>3.2.5.3</u>) depending on the availability of the requested license on the client.

Server Licensing Aborted: When the client sends Out-of-Sequence or Unrecognized Messages or Invalid MAC (as specified in sections 3.2.5.8 and 3.2.5.9), the terminal server goes into "Server Licensing Aborted" state.

Server Licensing Completed: When a new license is sent to the remote client (as specified in section 3.2.5.7), or the **client license** is upgraded and sent to the remote client (as specified in section 3.2.5.6), or the remote client doesn't need any license to connect (as specified in section 3.2.5.2), the terminal server goes into "Server Licensing Completed" state.

3.2.2 Timers

None. The licensing protocol does not have its own timers. Events such as connection timeout are handled by RDPBCGR (see [MS-RDPBCGR] section 3.3.6.1).

3.2.3 Initialization

The server licensing state MUST be initialized to "Server Licensing Begin".

3.2.4 Higher-Layer Triggered Events

None.

3.2.5 Message Processing Events and Sequencing Rules

3.2.5.1 Sending Server License Request PDUs

The server initiates the licensing protocol by sending a <u>Server License Request</u> to the client. A Server License Request uses the message type of LICENSE_REQUEST (0x01) in the <u>licensing preamble</u>.

3.2.5.2 Processing Client New License Requests

The client MUST send the **Client New License Request** (section <u>2.2.2.2</u>) when it does not have a license.

In case of a **personal terminal server**, no processing is done on the server side, and the server sends a **Licensing Error Message** (section <u>2.2.2.8</u>) with the error code STATUS_VALID_CLIENT and the state transition code ST NO TRANSITION. The licensing protocol is complete at this point.

In the case of terminal servers, the server tries to follow the **New License Flow** (section 1.3.3.1).

The server MUST compute the **license encryption key** (see section <u>5.1.2</u>) by using the client-generated random number and **premaster secret**. The premaster secret is obtained by decrypting the encrypted premaster secret with the terminal server's private key. This allows elements of the remainder of the licensing protocol to be encrypted.

The terminal server MUST decrypt (see section <u>5.1.4</u>) the **EncryptedHWID** field (see section <u>2.2.2.3</u>) using the license encryption key to get the **Client Hardware Identification** (section <u>2.2.2.3.1</u>) structure. It then MUST generate the **MAC** checksum (see section <u>5.1.5</u>) over the decrypted **Client Hardware Identification** and MUST compare it with the MAC checksum received in the **Client License Information** (section 2.2.2.3) message to verify data integrity.

The server MUST respond by issuing a platform challenge to the client. The server MUST encrypt and MUST send the **Platform Challenge** (section 3.2.1.6) in a **Server Platform Challenge** (section 2.2.2.4) message.

The **ClientUserName** and **ClientMachineName** fields are preserved for the licensing protocol session and are used to issue a CAL to the client when the client successfully responds to the **Server Platform Challenge** message.

3.2.5.3 Processing Client License Information

If the client has a valid license that matches the information sent by the server in the **Server License Request** (section <u>2.2.2.1</u>) message, the client MUST send the previously issued license in the **Client License Information** (section <u>2.2.2.3</u>) message.

In the case of a **personal terminal server**, the sent license is cached by the server, and then the server sends a **Licensing Error Message** (section <u>2.2.2.8</u>) with error code STATUS_VALID_CLIENT and the state transition code ST_NO_TRANSITION. The licensing protocol is complete at this point.

In the case of terminal servers, the server tries to follow the upgrade **License Flow** (section 1.3.3.2).

The server MUST compute the **license encryption key** by using the client-generated random number and the **premaster secret**. The premaster secret is obtained by decrypting the encrypted premaster secret with the terminal server's private key. This allows elements of the remainder of the licensing protocol to be encrypted.

The terminal server MUST decrypt (see section 5.1.4) the **EncryptedHWID** field (see section 2.2.2.3) using the license encryption key to get the **Client Hardware Identification** (section 2.2.2.3.1) structure. It then MUST generate the **MAC** checksum (see section 5.1.5) over the decrypted **Client Hardware Identification** and compares it with the MAC checksum received in the **Client License Information** (section 2.2.2.3) message to verify data integrity.

The server MUST validate the **License** (section 3.2.1.7) present in the **LicenseInfo BLOB** (see section 2.2.2.3) by validating the following data:

- Valid license server signature.
- Correct product information.
- License expiration date.
- Client hardware identification.

The server MUST respond as follows, depending on the validity of the client license.

Case 1: The client presents a valid permanent license that does not require an upgrade.

The server MUST send a **Licensing Error Message** with the error code STATUS_VALID_CLIENT and the state transition code ST NO TRANSITION. The licensing protocol is complete at this point.

Case 2: If the client presents a license that requires upgrading, that is:

- A valid permanent license that is expired.
- A valid permanent license that is about to expire (within seven days of its expiry).
- A valid temporary license.
- An invalid license.

The server MUST respond back with **Server Platform Challenge** (section $\underline{2.2.2.4}$) message to the client.

3.2.5.4 Sending Server Platform Challenges

The <u>Server Platform Challenge</u> message MUST be sent from the **terminal server** when a new license needs to be issued to the client or when an existing **client license** needs to be upgraded. The message type is PLATFORM_CHALLENGE (0x02) in the <u>licensing preamble</u>.

The server platform challenge is never sent when the target is a **personal terminal server**. This is because a personal terminal server never tries to get licenses issued or upgraded.

3.2.5.5 Processing Client Platform Challenge Responses

When a server receives the **Client Platform Challenge Response** (section <u>2.2.2.5</u>) message, it decrypts the **EncryptedPlatformChallengeResponse** and **EncryptedHWID** fields in the message using the **license encryption key** generated while processing earlier licensing messages.

The server MUST then generate the **MAC** checksum over the decrypted **Platform Challenge Response Data** (section 2.2.2.5.1) packet and decrypted **Client Hardware Identification** (section 2.2.2.3.1) packet, and MUST compare it with the received MAC checksum to verify the data integrity. **Handling invalid MACs** is specified in section 3.2.5.9.

The following cases can result:

Case 1: A **Client License Information** (section <u>2.2.2.3</u>) message was received earlier by the server, and the CAL (LicenseInfo BLOB) in the message required an upgrade.

If the **license server** cannot be contacted to upgrade the license, and the old license is still valid, the terminal server sends the **Server Upgrade License** (section <u>2.2.2.6</u>) message and returns the old license to the client.

Case 2: If either of the following conditions occurs:

 The CAL (LicenseInfo BLOB) received in the Client License Information message required an upgrade, and the license server cannot be contacted to upgrade the CAL and the old license is not valid.

Or:

 A Client New License Request (section 2.2.2.2) message was received earlier, and the license server cannot be contacted to issue a new CAL.

In this case, if the server's **grace period** has not been exceeded, the server responds as if the client presented a valid license by sending a **Licensing Error Message** (section 2.2.2.8) with an error code

of STATUS_VALID_CLIENT (0x00000007) and a state transition code of ST_NO_TRANSITION (0x00000002), ending the licensing protocol.

If the server's grace period has been exceeded, it sends a **Licensing Error Message** with error code ERR_NO_LICENSE_SERVER (0x00000006) and a state transition of ST_TOTAL_ABORT (0x00000001). The licensing protocol is aborted.

Case 3: If either of the following conditions occurs:

• The CAL (LicenseInfo BLOB) received in the **Client License Information** message required an upgrade, and the license server is available to upgrade the CAL, but it cannot upgrade the license and the old license is not valid.

Or:

A Client New License Request message was received earlier, and the license server is available
to issue a new CAL, but the server was not able to issue a new license.

In this case, if the grace period has not been exceeded, the server responds as if the client presented a valid license by sending a **Licensing Error Message** with an error code of STATUS_VALID_CLIENT (0x00000007) and a state transition code of ST_NO_TRANSITION (0x00000002), ending the licensing protocol.

If the server's grace period has been exceeded, it sends a **Licensing Error Message** with an error code of ERR_INVALID_CLIENT (0x00000008) and a state transition of ST_TOTAL_ABORT (0x00000001). The licensing protocol is aborted.

Case 4: The CAL (LicenseInfo BLOB) in the **Client License Information** message received by the server required an upgrade, and the CAL is valid and the license server available, but the license server cannot upgrade the license. In this case, the terminal server sends the Server Upgrade License message and returns the old license to the client.

Case 5: A **Client License Information** message was received earlier by the server; the CAL (LicenseInfo BLOB) in the message required an upgrade; the license server can be contacted; and the old license is successfully upgraded. In this case, the terminal server returns the upgraded CAL in a **Server Upgrade License** message.

Case 6: A **Client New License Request** message was received earlier, the license server was contacted, and it issued a new license. In this case, the terminal server sends the new license to the client in a **Server New License** (section 2.2.2.7) message.

3.2.5.6 Sending Server Upgrade Licenses

The <u>Server Upgrade License</u> message MUST be sent to the client to upgrade a license in its **license store**. The message type is UPGRADE LICENSE (0x04) in the licensing preamble.

The **EncryptedLicenseInfo** field is the license information structure after encryption with the **license encryption key**, using **RC4**. The BLOB type is BB_ENCRYPTED_DATA_BLOB (0x0009). The **MACData** field is the 128-bit **MD5 digest** generated from the unencrypted upgraded license.

3.2.5.7 Sending Server New Licenses

The <u>Server New License</u> message MUST be sent to the client when a new license is required to be issued. The message type is $NEW_LICENSE$ (0x03) in the <u>licensing preamble</u>.

3.2.5.8 Handling Out-of-Sequence or Unrecognized Messages

If the server receives a message that is not expected according to the **Licensing PDU Flow** (section 1.3.3), or a malformed or an unrecognized message, the server MUST send a **Licensing Error**

Message (section <u>2.2.2.8</u>) with an error code of ERR_INVALID_CLIENT and a state transition code of ST_TOTAL_ABORT.

3.2.5.9 Handling Invalid MACs

If the **MAC** generated over decrypted fields of a message does not match the MAC contained in the message, the server MUST send a **Licensing Error Message** (section <u>2.2.2.8</u>) with an error code of ERR_INVALID_MAC and a state transition code of ST_TOTAL_ABORT.

3.2.6 Timer Events

None.

3.2.7 Other Local Events

None.

3.3 Client Details

3.3.1 Abstract Data Model

3.3.1.1 Platform ID

The **PlatformId** field is sent by the client in the <u>Client New License Request</u> message or the <u>Client License Information</u> message, depending on whether the client has already been issued a license. It is also sent by the client in the <u>Client Hardware Identification</u> structure. The **PlatformId** field content is populated by the client, as specified in Client New License Request (section 2.2.2.2). The **PlatformId** field is used by the server to uniquely identify a client in conjunction with the **Data1**, **Data2**, **Data3**, and **Data4** fields of the Client Hardware Identification structure.

3.3.1.2 Client Random

The **ClientRandom** field is a 32-byte random number created by using a cryptographically secure pseudo-random number generator (see sections 2.2.2.2 and 5.1.1). It is created at the beginning of the licensing protocol and destroyed when the licensing protocol is completed.

3.3.1.3 Preferred Key Exchange Algorithm ID

The preferred key exchange algorithm ID is the key exchange algorithm selected by the client. This MUST be set to KEY_EXCHANGE_ALG_RSA (0x0000001), which indicates RSA with a 512-bit key (see Client New License Request (section 2.2.2.2)).<19>

3.3.1.4 Client User Name

See section 2.2.2.2.

3.3.1.5 Client Machine Name

See section 2.2.2.2.

3.3.1.6 Encrypted Premaster Secret

The encrypted premaster secret is a licensing BLOB containing a 48-byte random number that is encrypted using RSA with the server's public key retrieved from the <u>server certificate</u>.

The **premaster secret** (along with client and server random values) is used to generate the **license encryption key** for later stages of the licensing protocol.

3.3.1.7 License

The license is a licensing BLOB of type BB_DATA_BLOB (0x0001). The server MUST send it to the client in the <u>Server New License</u> message or the <u>Server Upgrade License</u> message. It is stored by the client in the **license store**.

3.3.1.8 License Store

This is a client-side database used for storing **CALs**. This database is indexed by using the <u>product information</u> and the <u>scope list</u> associated with the license. The product information and the scope list are used for faster retrieval of the license by the client when processing the <u>Server License Request message</u>.

On receipt of the Server License Request message, the client searches its **license store** for a CAL. If the client has already been issued a CAL, it retrieves the binary data for the license from its license store by using the product information and the scope list as the lookup key. The client then MUST send it as a Licensing Binary BLOB in the Client License Information message.

3.3.1.9 Client Hardware Identification

The **Client Hardware Identification** is an identifier that uniquely identifies the client.

The content and format of the **PlatformId** field of **Client Hardware Identification** (section 2.2.2.3.1) are the same as the **PlatformId** field of the **Client License Information** (section 2.2.2.3) and **Client New License Request** (section 2.2.2.2) messages. This ties a particular **Client Hardware Identification** to the client's operating system. The other 16 bytes (fields **Data1** through **Data4**) of the **Client Hardware Identification** are intended to be hardware specific. Clients SHOULD attempt to use operating system-specific or hardware-specific information that is easily and consistently retrievable. Examples include hard-wired processor IDs, Ethernet addresses of nonremovable Ethernet cards, and disk subsystem serial numbers. The client SHOULD cache the Client Hardware Identification for later retrieval after it is generated.

3.3.1.10 Encryption Keys

The client uses the 128-bit licensing encryption key (section <u>5.1.2</u>) to decrypt the **EncryptedPlatformChallenge** field in the **Server Platform Challenge** message (section <u>2.2.2.4</u>), and encrypt the **EncryptedHWID** field in the **Client License Information** (section <u>2.2.2.3</u>) and **Client Platform Challenge** (section <u>2.2.2.5</u>) messages.

3.3.1.11 Client Licensing States

Client Licensing States is an enumeration of different licensing states that the remote client can have. Client licensing state transition is shown in the diagram in section 3.1.5.3.1.

Client Licensing Await: The client starts with the "Client Licensing Await" state.

Client Process Licensing: The client goes into the "Client Process Licensing" state after receiving a **SERVER_LICENSE_REQUEST** (section 2.2.2.1) request (as specified in section 3.3.5.1). In this state the remote client sends the license information (as specified in section 3.2.5.3) or the new license

request (as specified in section <u>3.2.5.2</u>), depending on the availability of the requested license on the client to the **terminal server**.

Client Licensing Aborted: When the terminal server sends Out-of-Sequence or Unrecognized Messages or Invalid MAC (as specified in sections 3.2.5.8 and 3.2.5.9), the client goes into the "Server Licensing Aborted" state.

Client Licensing Completed: When a new license is received from the terminal server (as specified in section 3.3.5.7) or on receiving the license that is upgraded from the terminal server (as specified in section 3.3.5.6) or on receiving error code STATUS_VALID_CLIENT and the state transition code ST_NO_TRANSITION from the terminal server, the client goes into the "Client Licensing Completed" state.

3.3.2 Timers

3.3.2.1 Client Packet Wait Timer

The client MAY<20> implement a configurable **Client Packet Wait Timer**. If the client does not receive a response from the server for this time duration, the client MAY disconnect the RDP connection.

3.3.3 Initialization

The client licensing state MUST be initialized to "Client Licensing Await".

3.3.4 Higher-Layer Triggered Events

None.

3.3.5 Message Processing Events and Sequencing Rules

3.3.5.1 Processing Server License Requests

The server initiates the licensing protocol by sending a **Server License Request** (section $\underline{2.2.2.1}$) message to the client.

The client MUST respond to the **Server License Request** in the following possible ways:

- If the **Server Certificate** (section 2.2.1.4) does not authenticate correctly, the client MUST return a **Licensing Error Message** (section 2.2.2.8) with an error code of ERR_INVALID_SERVER_CERTIFICATE (0x01) and a state transition of ST_TOTAL_ABORT (0x01). The server MUST then end the licensing protocol.
- The client searches its license store to find a CAL that matches the Product Information (section 2.2.2.1.1) packet provided in the Server License Request. If the client finds a matching license, it MUST respond with a Client License Information (section 2.2.2.3) message.
- If the client does not find a license matching the Product Information provided in the Server
 License Request, it MUST request a new license by sending the Client New License Request
 (section 2.2.2.2) message.
- The client MAY also choose to end the licensing protocol by sending a Licensing Error Message
 with an error code of ERR_NO_LICENSE (0x02) and a state transition of ST_TOTAL_ABORT
 (0x01).

3.3.5.2 Sending Client New License Requests

The Sending Client New License Request message is sent when the client cannot find a license type in its **license store** that matches the <u>Product Information</u> given by the server in the <u>Server License</u> Request message.

The message type is NEW_LICENSE_REQUEST (0x13) in the <u>licensing preamble</u>. See also <u>Client New</u> License Request (section 2.2.2.2).

3.3.5.3 Sending Client License Information

The <u>Client License Information</u> message MUST be sent when a client has a license in its **license store** that matches the <u>Product Information</u> sent in the <u>Server License Request</u> message.

The message type in the <u>licensing preamble</u> is LICENSE_INFO (0x12).

3.3.5.4 Processing Server Platform Challenges

This message is sent from the server when a new license is required to be issued to the client or when the CAL presented by the client needs to be upgraded.

The client MUST decrypt the **EncryptedPlatformChallenge** field (see section <u>5.1.4</u>) received in the <u>Server Platform Challenge (section 2.2.2.4)</u> message using the <u>license encryption key</u> to obtain the platform challenge data. It then MUST generate a **MAC** checksum over the decrypted platform challenge data and compares it with the received MAC checksum to verify the integrity of the data.

The client MUST respond to the Server Platform Challenge with a <u>Client Platform Challenge</u> <u>Response (section 2.2.2.5)</u> message.

3.3.5.5 Sending Client Platform Challenge Responses

The client MUST send the <u>Client Platform Challenge Response</u> (section 2.2.2.5) message in response to a <u>Server Platform Challenge</u> (section 2.2.2.4) message. The message type in the <u>licensing preamble</u> is PLATFORM_CHALLENGE_RESPONSE (0x15).

The client constructs a <u>Platform Challenge Response Data (section 2.2.2.5.1)</u> structure and encrypts it (see section <u>5.1.3</u>) by using the <u>license encryption key</u>. This encrypted Platform Challenge Response Data is sent as the EncryptedChallengeResponse BLOB of the Client Platform Challenge Response message.

3.3.5.6 Processing Server Upgrade Licenses

The client MUST receive a <u>Server Upgrade License (section 2.2.2.6)</u> message when the CAL sent by the client in the <u>Client License Information (section 2.2.2.3)</u> message needs to be upgraded.

The client MUST decrypt (see section <u>5.1.4</u>) the **EncryptedLicenseInfo** field of the Server Upgrade License message using the **license encryption key** to get a <u>New License</u> <u>Information (section 2.2.2.6.1)</u> structure.

It then MUST generate a **MAC** checksum over the decrypted New License Information structure and compares it with the received checksum to verify the data integrity.

The client then MAY store the binary data for the CAL received in the **pbLicenseInfo** field of the New License Information structure in the client's **license store**, using the **dwVersion**, **pbScope**, **pbCompanyName**, and **pbProductId** fields of this structure as indexing information. This binary data replaces the binary data of any previously held CAL.

3.3.5.7 Processing Server New Licenses

The client MUST receive a new license in the <u>Server New License</u> message. This message is processed in the same way that the client processes the <u>Server Upgrade License</u> message (see <u>Processing Server Upgrade Licenses</u>).

3.3.5.8 Handling Out-of-Sequence or Unrecognized Messages

If the client receives a message that is not expected according to the <u>Licensing PDU Flow</u>, or a malformed or an unrecognized message, the client MUST disconnect the RDP connection.

3.3.5.9 Handling Invalid MACs

If the **MAC** generated over decrypted fields of a message does not match the MAC contained in the message, the client MAY send a **Licensing Error Message** (section <u>2.2.2.8</u>) with an error code of ERR_INVALID_MAC and a state transition code of ST_TOTAL_ABORT. The client then MUST disconnect the RDP connection.

3.3.6 Timer Events

None.

3.3.7 Other Local Events

None.

4 Protocol Examples

For a complete listing of RDP headers, see [MS-RDPBCGR] section 4.

The sample protocol packets listed in sections 4.1 through 4.7 are provided as examples and should not be considered to have been generated as part of the same protocol run.

4.1 Server License Request (SERVER_LICENSE_REQUEST)

The **Server License Request** message is the first message sent by the server as part of the licensing protocol. See sections 2.2.2.1 and 3.2.5.1.

00000000	01	03	98	08	84	ef	ae	20-b1	d5	9e	36	49	1a	e8	2e	6I
00000010	0 a							4f-33								I.GO3.Z
00000020								00-2c								. a,M.i.</td
00000030								00-6f								c.r.o.s.o.f.t
00000040	43	00	6f	00	72	00	70	00-6f	00	72	00	61	00	74	00	C.o.r.p.o.r.a.t.
00000050	69	00	6f	00	6e	00	00	00-08	00	00	00	41	00	30	00	i.o.nA.0.
00000060	32	0.0	0.0	0.0	0d	0.0	0.4	00-01	0.0	0.0	0.0	0.3	0.0	12	0.8	2
00000070								00-f5				30				
08000000								01-02							f2	0\$
00000090								2b-0e								0+02
0A0000A0								04-03								100UR.O.
000000B0	44	00	45					30-19				04	0.7	le	12	D.E.N.T0U
000000C0	00	57	00	4f	00	52	00	4b-00	47	00	52	00	4f	00	55	.W.O.R.K.G.R.O.U
000000D0	00	50	30	1e	17	0d	37	30-30	35	32	37	30	31	31	31	.P07005270111
000000E0	30	33	5a	17	0d	34	39	30-35	32	37	30	31	31	31	30	03Z49052701110
000000F0					31			13-06					1 e	00	0.0	3Z02100U
00000100								00-4e								R.O.D.E.N.TOU
00000110								4f-00								W.O.R.K.G.R
00000120	00	4f			00			82-01								.O.U.PO"O*.
00000130								05-00								н
00000140	01	0a	02	82	01	01	00	88-ad	7с	8f	8b	82	76	5a	bd	
00000150	8f	6f	62	18	e1	d9	aa	41-fd	ed	68	01	С6	34	35	b0	.obAh45.
00000160	29	04	са	4a	4a	1c	7e	80 - 14	f7	8e	77	b8	25	ff	16)JJ.~w.%
00000170	47	6f	bd	e2	34	3d	2e	02-b9	53	e4	33	75	ad	73	28	Go4=S.3u.s(
00000180								53-1b					60		7e	M.1."S.,`.~
00000190								58-dd								y.99X.U\$;U{C.
00000130								95-2b								/.d:T.+.I.a
000001B0								42-f8								EB.u.&m9
000001C0								8d-e4							61	o.U.2.8D6.a
000001D0								e4-77							41	v.LUwA
000001E0	94	00	58	aa	С9	34	a2	98-c6	01	1a	76	14	01	a8	dc	x4v
000001F0	30	7с	77	5a	20	71	5a	a2-3f	af	13	7e	e8	fd	84	a2	0 wZ qZ.?~
00000200	5b	cf	25	е9	с7	8f	a8	f2-8b	84	с7	04	5e	53	73	4e	[.%^SsN
00000210	0e	89	a3	Зс	e7	68	5с	24-b7	80	53	3с	54	с8	c1	53	<.h\\$S <ts< td=""></ts<>
00000220	aa	71	71	3d	36	15	d6	6a-9d	7d	de	ae	f9	e6	af	57	.qq=6j.}W
00000230								cd-ed							10].M8.
00000240								02-03								. Bg#0.
00000240								04-08								0U0
00000260								03-02								.0+
00000270								a3-b6							9f	3n}s.
00000280								21-df							a9	1B.?~!.(.Y.j
00000290	3d	30	7d	e1	91	db	77	6b-8b	10	е6	fd	bc	Зс	a3	58	$=0$ } wk < . X
000002A0	48	c2	36	dd	a0	0b	f5	8e-13	da	7b	04	08	44	b4	f2	H.6
000002B0	a8	0d	1e	0b	1d	1a	3f	f9-9b	4b	5a	54	с5	b3	b4	03	?KZT
000002C0								63-0f							8d	.u.r\=.cdX.R.
000002D0								05-58								.y4.f.X.ny
000002E0		ed						b8-16					5f			kL;
000002E0			73					ce-e1						7c		D.sG!m
00000300								04-c8								z^j]'
00000310								ea-8d								fuN".(@
00000320		7d						01-2a							f8	.}.K*m:>.G8.
00000330								cf-fb								0.^%=B.)
00000340	89	9e	bf	39	ee	77	09	d9-3e	8b	52	36	b6	bb	8b	bd	9.w>.R6
00000350	0d	b2	52	aa	2с	cf	38	4e-4d	cf	1d	6d	5d	25	17	ac	R.,.8NMm]%
																•

00000360	2 C	f6	f0	65	5a	c9	fe	31-53	h4	f0	00	94	40	Λd	54	,eZ1SN.T
								04-f9								•
00000370																00
00000380	01	02	02	05	01	00	00	00-02	30	09	06	05	2b	0e	03	
00000390	02	1d	05	00	30	32	31	30-30	13	06	03	55	04	03	1e	02100U
000003A0								00-45							06	R.O.D.E.N.TO
000003B0	03	55						57-00					4b	00	47	.UW.O.R.K.G
000003C0	00	52	00	4 f	00	55	00	50-30	1e	17	0d	30	37	30	35	.R.O.U.P00705
000003D0	32	36						33-5a					3.0			26124553Z38011
000003E0	39	30	33	31	34	30	37	5a-30	81	92	31	81	8 f	30	23	9031407Z010#
000003F0	06	03	55	04	03	1e	1c	00-6e	00	63	00	61	00	6c	00	Un.c.a.l.
00000400	72	$\cap \cap$	70	$\cap \cap$	63	$\cap \cap$	3 =	00-52	$\cap \cap$	Λf	$\cap \cap$	11	$\cap \cap$	15	$\cap \cap$	r.p.c.:.R.O.D.E.
00000410								55-04								N.TO#Un.c
00000420	00	61	00	6c	00	72	00	70-00	63	00	3a	00	52	00	4f	.a.l.r.p.c.:.R.O
00000430	$\cap \cap$	44	$\cap \cap$	45	$\cap \cap$	40	$\cap \cap$	54-30	43	0.6	NЗ	55	Λ4	05	10	.D.E.N.TOCU
00000440								00-4b								<.1.B.c.K.e.b.h.
00000450	70	00	58	00	5a	00	74	00-4c	00	71	00	4f	00	37	00	p.X.Z.t.L.q.0.7.
00000460	53	0.0	51	0.0	6e	0.0	42	00-70	0.0	52	0.0	66	0.0	7.5	00	S.Q.n.B.p.R.f.u.
								00-3d								=
00000470																d.d.d.Y.=0
00000480	1e	30	09	06	05	2b	0e	03-02	0f	05	00	03	82	01	0f	.0+
00000490	00	30	82	01	0a	02	82	01-01	00	с8	90	6b	f0	С6	58	.0kX
000004A0								d9-82								q.nQ
																· ·
000004B0								ab-44								2fwDx
000004C0	44	26	46	7f	16	d4	С6	63-eb	ca	55	e5	4e	8b	2d	a6	D&FcU.N
000004D0	64	83	95	a 7	a 8	62	fa	d0-be	26	80	20	ah	Λa	64	90	mj&d.
000004E0								7e-d1								2\~.k:)~}
000004F0	a3	86	6c	fd	a5	35	71	da-21	b4	ee	a4	97	f3	a8	b2	l5q.!
00000500	12	dh	a 4	27	57	36	c9	08-22	5 c	54	f7	99	7h	аЗ	2 f	'W6"./
00000510								6b-71								
																.\'kq[#.
00000520	5с	b8	1b	73	4b	6e	7a	03-13	ff	97	е9	62	b9	4a	a0	\sKnzb.J.
00000530	51	23	с3	6c	32	3e	02	f2-63	97	23	1c	с5	78	d8	fc	Q#.12>c.#x
00000540								df-c5							80	K.V.tV(
00000550								3e-ab								eZ.E>.XU@G.
00000560	4 c	49	а3	8d	39	е3	66	5f-93	33	6d	f8	5f	с5	54	e5	LI9.f .3mT.
00000570	fb	57	3а	de	4.5	12	b5	c7-05	4b	88	1 f	b4	35	0 f	7 c	.W:.EK5.
00000580								80-cb								.ug.H`e
00000590								bf-6f								4emo[
000005A0	82	01	bf	30	82	01	bb	30-14	06	09	2b	06	01	04	01	00+
000005B0	82	37	12	0.4	0.1	0.1	ff	04-04	0.1	0.0	0.5	0.0	30	3 c	0.6	.70<.
000005C0								37-12								.+,M
000005D0	00	69	00	63	00	72	00	6f-00	73	00	6f	00	66	00	74	.i.c.r.o.s.o.f.t
000005E0	00	20	00	43	00	6f	00	72-00	70	00	6f	00	72	00	61	C.o.r.p.o.r.a
000005F0	$\cap \cap$	74	$\cap \cap$	69	$\cap \cap$	6 f	$\cap \cap$	6e-00	$\cap \cap$	$\cap \cap$	30	81	cd	06	nα	.t.i.o.n0
00000310																
								12-05								+7
00000610	30	00	00	01	00	00	00	02-00	00	00	09	04	00	00	1c	0
00000620	00	4a	00	66	00	4a	00	b0-00	01	00	33	00	64	00	32	.J.f.J3.d.2
00000630	00	36	$\cap \cap$	37	$\cap \cap$	39	00	35-00	34	$\cap \cap$	2d	$\cap \cap$	65	$\cap \cap$	65	.6.7.9.5.4e.e
00000640								31-00					31			.b.71.1.d.1
00000650	00	62	00	39	00	34	00	65-00	2d	00	30	00	30	00	63	.b.9.4.e0.0.c
00000660	00	30	00	34	00	66	00	61-00	33	00	30	00	38	00	30	.0.4.f.a.3.0.8.0
00000670	$\cap \cap$							64-00								.d3.d.2.6.7.9
00000680								65-00								.5.4e.e.b.7
00000690	00	31	00	31	00	64	00	31-00	2d	00	62	00	39	00	34	.1.1.d.1b.9.4
000006A0	0.0	65	0.0	2d	0.0	30	0.0	30-00	63	0.0	30	0.0	34	0.0	66	.e0.0.c.0.4.f
000006B0								38-00								
																.a.3.0.8.0.d
000006C0	00	00	Τ0	00	80	64	00	00-00	00	00	30	6e	06	09	2b	d0n+
000006D0	06	01	04	01	82	37	12	06-01	01	ff	04	5e	00	30	00	7^.0.
000006E0								52-00								>.R.O.D.E.N
000006F0								38-00								.T7.8.4.4.0
00000700	00	30	00	30	00	36	00	2d-00	35	00	38	00	36	00	37	.0.0.65.8.6.7
00000710								2d-00								.0.4.57.0.3.4
00000720								4f-00								.7W.O.R.K.G.R
00000730								00-00								.O.U.P0%U
00000740	1d	23	01	01	ff	04	1b	30-19	a1	10	a4	0e	52	00	4 f	.#0R.O
00000750	00	44	00	45	00	4e	00	54-00	00	00	82	05	01	00	00	.D.E.N.T
00000760								0e-03								0+
00000770								1d-47								Q.
00000780								11-39								E.VQ#.9z.
00000790	84	е3	3d	54	77	97	4d	19-92	30	64	a0	47	С6	2f	6d	=Tw.MOd.G./m
000007A0								45-ad								d v.&E.ZDTK(
00000/AU	23	uz	04	/ C	10	C 0	20	-1J-au	Ja	44	J4	eа	тО	4D	۷0	αΙΛ.αΕ.ΩΝΙ.Υ.(

```
000007B0 \, 77 1f 77 ea ec 74 02 38-68 9e 79 14 72 83 34 74
                                                            w.w..t.8h.y.r.4t
000007C0 62 d2 c1 0c a4 0b f2 a9-b0 38 bb 7c d0 ae be bf
                                                            b.....8.1....
         74 47 16 a0 a2 d3 fc 1d-b9 ba 26 10 06 ef ba 1d
000007D0
                                                            tG....&....
000007E0 43 01 4e 4e 6f 56 ca e0-ee d0 f9 4e a6 62 63 ff
                                                            C.NNoV....N.bc.
000007F0 da 0b c9 15 61 6c ed 6b-0b c4 58 53 86 0f 8c 0c
                                                            ....al.k..XS....
00800000
         la 2e df c1 f2 43 48 d4-af 0a 78 36 b2 51 32 28
                                                            .....CH...x6.Q2(
00000810 6c c2 75 79 3f 6e 99 66-88 3e 34 d3 7f 6d 9d 07
                                                            1.uy?n.f.>4..m..
00000820 e4 6b eb 84 e2 0a bb ca-7d 3a 40 71 b0 be 47 9f
                                                            .k.....}:@q..G.
00000830 12 58 31 61 2b 9b 4a 9a-49 8f e5 b4 0c f5 04 4d
                                                            .X1a+.J.I.....M
00000840 3c ce bc d2 79 15 d9 28-f4 23 56 77 9f 38 64 3e
                                                            <...y..(.#Vw.8d>
00000850 03 88 92 04 26 76 b9 b5-df 19 d0 78 4b 7a 60 40
                                                            ....&v....xKz`@
                                                            #..."+...T..![`.
00000860 23 91 f1 15 22 2b b4 e7-02 54 a9 16 21 5b 60 96
00000870
         a9 5c 00 00 00 00 00 00-00 00 00 00 00 00 00
                                                            .\.....
00000880 00 00 01 00 00 00 0e 00-0e 00 6d 69 63 72 6f 73
                                                            .....micros
00000890 6f 66 74 2e 63 6f 6d 00
                                                            oft.com.
0x00: LICENSE PREAMBLE (4 Bytes)
01 -> LICENSE PREAMBLE::bMsgType = LICENSE REQUEST (1 Byte)
03 -> LICENSE PREAMBLE::bVersion = 3 (RDP 5.0, 5.2, 6.0) (1 Byte)
08 -/ LICENSE PREAMBLE::wMsgSize = 0x898 (2 Bytes)
0x04: ServerRandom (0x20 Bytes)
84 ef ae 20 b1 d5 9e 36 -\
49 1a e8 2e 0a 99 89 ac -|
49 a6 47 4f-33 9b 5a b9 -|
95 03 a6 c6 c2 3c 3f 61 -/ SERVER RANDOM
0x24: Product Info (4 + 4 + 0x2c + 4 + 8 = 0x40 bytes)
0.0 - 1
06 -|
00 -/ PRODUCT INFO::dwVersion = 0x00060000
2c -\
00 - 1
00 -1
00 -/ PRODUCT INFO::cbCompanyName = 0x2c (44 bytes)
4d 00 69 00 63 00 72 00 -\
6f 00 73 00 6f 00 66 00 -|
74 00 20 00 43 00 6f 00 -I
72 00 70 00 6f 00 72 00 -I
61 00 74 00 69 00 6f 00 -|
                        -/ PRODUCT INFO::pbCompanyName
6e 00 00 00
08 -\
00 -1
00 -1
00 -/ PRODUCT INFO::cbProductId = 0x8 (8 bytes)
41 00 30 00 32 00 00 00 -> PRODUCT INFO::pbProductId
0x64: KeyExchangeList (2 + 2 + 4 = 8 \text{ bytes})
0d -\
00 -/ KeyExchangeList::wBlobType = BB KEY EXCHG ALG BLOB
00 -/ KeyExchangeList::wBlobLen = 4
01 -\
00 -1
00 -/ KeyExchangeList::pBlob
0x6c: Server Certificate (2 + 2 + 0x812 = 0x816 \text{ bytes})
00 -/ ServerCertificate::wBlobType = BB CERTIFICATE BLOB
```

12 -\ 08 -/ ServerCertificate::wBlobLen = 0x812 bytes 02 00 00 80-02 00 00 00 f5 02 00 00 -\ 30 82 02 fl 30 82 01 dd-a0 03 02 01 02 02 08 01 -I 9e 24 a2 f2 ae 90 80 30-09 06 05 2b 0e 03 02 1d -| 05 00 30 32 31 30 30 13-06 03 55 04 03 1e 0c 00 -| 52 00 4f 00 44 00 45 00-4e 00 54 30 19 06 03 55 -I 04 07 1e 12 00 57 00 4f-00 52 00 4b 00 47 00 52 -| 00 4f 00 55 00 50 30 1e-17 0d 37 30 30 35 32 37 -| 30 31 31 31 30 33 5a 17-0d 34 39 30 35 32 37 30 -| 31 31 31 30 33 5a 30 32-31 30 30 13 06 03 55 04 -| 03 le 0c 00 52 00 4f 00-44 00 45 00 4e 00 54 30 -| 19 06 03 55 04 07 1e 12-00 57 00 4f 00 52 00 4b -| 00 47 00 52 00 4f 00 55-00 50 30 82 01 22 30 0d -| 06 09 2a 86 48 86 f7 0d-01 01 01 05 00 03 82 01 -| Of 00 30 82 01 0a 02 82-01 01 00 88 ad 7c 8f 8b -| 82 76 5a bd 8f 6f 62 18-e1 d9 aa 41 fd ed 68 01 -| c6 34 35 b0 29 04 ca 4a-4a 1c 7e 80 14 f7 8e 77 -| b8 25 ff 16 47 6f bd e2-34 3d 2e 02 b9 53 e4 33 -| 75 ad 73 28 80 a0 4d fc-6c c0 22 53 1b 2c f8 f5 -| 01 60 19 7e 79 19 39 8d-b5 ce 39 58 dd 55 24 3b -| 55 7b 43 c1 7f 14 2f b0-64 3a 54 95 2b 88 49 0c -| 61 2d ac f8 45 f5 da 88-18 5f ae 42 f8 75 c7 26 -| 6d b5 bb 39 6f cc 55 1b-32 11 38 8d e4 e9 44 84 -| 11 36 a2 61 76 aa 4c b4-e3 55 0f e4 77 8e de e3 -| a9 ea b7 41 94 00 58 aa-c9 34 a2 98 c6 01 1a 76 -| 14 01 a8 dc 30 7c 77 5a-20 71 5a a2 3f af 13 7e -| e8 fd 84 a2 5b cf 25 e9-c7 8f a8 f2 8b 84 c7 04 -| 5e 53 73 4e 0e 89 a3 3c-e7 68 5c 24 b7 80 53 3c -| 54 c8 c1 53 aa 71 71 3d-36 15 d6 6a 9d 7d de ae -| f9 e6 af 57 ae b9 01 96-5d e0 4d cd ed c8 d7 f3 -| 01 03 38 10 be 7c 42 67-01 a7 23 02 03 01 00 01 -| a3 13 30 11 30 0f 06 03-55 1d 13 04 08 30 06 01 -01 ff 02 01 00 30 09 06-05 2b 0e 03 02 1d 05 00 -| 03 82 01 01 00 81 dd d2-d3 33 d4 a3 b6 8e 6e 7d -| 9f fd 73 9f 31 0b dd 42-82 3f 7e 21 df 28 cc 59 -| ca 6a c0 a9 3d 30 7d e1-91 db 77 6b 8b 10 e6 fd -| bc 3c a3 58 48 c2 36 dd-a0 0b f5 8e 13 da 7b 04 -| 08 44 b4 f2 a8 0d 1e 0b-1d 1a 3f f9 9b 4b 5a 54 -| c5 b3 b4 03 93 75 b3 72-5c 3d cf 63 0f 15 e1 64 -| 58 de 52 8d 97 79 0e a4-34 d5 66 05 58 b8 6e 79 -1 b2 09 86 d5 f0 ed c4 6b-4c ab 02 b8 16 5f 3b ed -| 88 5f d1 de 44 e3 73 47-21 f7 03 ce e1 6d 10 0f -| 95 cf 7c a2 7a a6 bf 20-db e1 93 04 c8 5e 6a be -| c8 01 5d 27 b2 03 0f 66-75 e7 cb ea 8d 4e 98 9d -22 ed 28 40 d2 7d a4 4b-ef cc bf 01 2a 6d 3a 3e -| be 47 38 f8 ea a4 c6 30-1d 5e 25 cf fb e8 3d 42 -| dd 29 e8 99 89 9e bf 39-ee 77 09 d9 3e 8b 52 36 -| b6 bb 8b bd 0d b2 52 aa-2c cf 38 4e 4d cf 1d 6d -| 5d 25 17 ac 2c f6 f0 65-5a c9 fe 31 53 b4 f0 0c -1 94 4e 0d 54 8e fd 04 00-00 30 82 04 f9 30 82 03 -| e5 a0 03 02 01 02 02 05-01 00 00 00 02 30 09 06 -| 05 2b 0e 03 02 1d 05 00-30 32 31 30 30 13 06 03 -| 55 04 03 1e 0c 00 52 00-4f 00 44 00 45 00 4e 00 -| 54 30 19 06 03 55 04 07-1e 12 00 57 00 4f 00 52 -| 00 4b 00 47 00 52 00 4f-00 55 00 50 30 1e 17 0d -| 30 37 30 35 32 36 31 32-34 35 35 33 5a 17 0d 33 -| 38 30 31 31 39 30 33 31-34 30 37 5a 30 81 92 31 -| 81 8f 30 23 06 03 55 04-03 1e 1c 00 6e 00 63 00 -| 61 00 6c 00 72 00 70 00-63 00 3a 00 52 00 4f 00 -| 44 00 45 00 4e 00 54 30-23 06 03 55 04 07 1e 1c -| 00 6e 00 63 00 61 00 6c-00 72 00 70 00 63 00 3a -| 00 52 00 4f 00 44 00 45-00 4e 00 54 30 43 06 03 -| 55 04 05 1e 3c 00 31 00-42 00 63 00 4b 00 65 00 -I 62 00 68 00 70 00 58 00-5a 00 74 00 4c 00 71 00 -| 4f 00 37 00 53 00 51 00-6e 00 42 00 70 00 52 00 -|

```
66 00 75 00 64 00 64 00-64 00 59 00 3d 00 0d 00 -|
0a 30 82 01 1e 30 09 06-05 2b 0e 03 02 0f 05 00 -
03 82 01 0f 00 30 82 01-0a 02 82 01 01 00 c8 90 -
6b f0 c6 58 81 a6 89 1c-0e f2 f6 d9 82 12 71 a5 -|
6e 51 db e0 32 66 aa 91-77 0e 88 ab 44 b7 d3 97 -|
da 78 8f 0e 44 26 46 7f-16 d4 c6 63 eb ca 55 e5 -|
4e 8b 2d a6 6d 83 95 a7-a8 6a fa d0 be 26 80 ae -1
ab 0a 64 90 32 8c df 5c-f8 f9 d0 7e d1 6b 3a 29 -
7e 7d bd 02 a3 86 6c fd-a5 35 71 da 21 b4 ee a4 -|
97 f3 a8 b2 12 db a4 27-57 36 c9 08 22 5c 54 f7 -|
99 7b a3 2f b8 5c d5 16-b8 19 27 6b 71 97 14 5b -|
e8 1f 23 e8 5c b8 1b 73-4b 6e 7a 03 13 ff 97 e9 -|
62 b9 4a a0 51 23 c3 6c-32 3e 02 f2 63 97 23 1c -|
c5 78 d8 fc b7 07 4b b0-56 0f 74 df c5 56 28 e4 -|
96 fd 20 8e 65 5a e6 45-ed c1 05 3e ab 58 55 40 -|
af e2 47 a0 4c 49 a3 8d-39 e3 66 5f 93 33 6d f8 -|
5f c5 54 e5 fb 57 3a de-45 12 b5 c7 05 4b 88 1f -|
b4 35 0f 7c c0 75 17 c6-67 dd 48 80 cb 0a be 9d -
f6 93 60 65 34 eb 97 af-65 6d df bf 6f 5b 02 03 -|
01 00 01 a3 82 01 bf 30-82 01 bb 30 14 06 09 2b -|
06 01 04 01 82 37 12 04-01 01 ff 04 04 01 00 05 -I
00 30 3c 06 09 2b 06 01-04 01 82 37 12 02 01 01 -
ff 04 2c 4d 00 69 00 63-00 72 00 6f 00 73 00 6f -|
00 66 00 74 00 20 00 43-00 6f 00 72 00 70 00 6f -|
00 72 00 61 00 74 00 69-00 6f 00 6e 00 00 00 30 -
81 cd 06 09 2b 06 01 04-01 82 37 12 05 01 01 ff -|
04 81 bc 00 30 00 00 01-00 00 00 02 00 00 00 09 -
04 00 00 1c 00 4a 00 66-00 4a 00 b0 00 01 00 33 -|
00 64 00 32 00 36 00 37-00 39 00 35 00 34 00 2d -|
00 65 00 65 00 62 00 37-00 2d 00 31 00 31 00 64 -I
00 31 00 2d 00 62 00 39-00 34 00 65 00 2d 00 30 -|
00 30 00 63 00 30 00 34-00 66 00 61 00 33 00 30 -
00 38 00 30 00 64 00 00-00 33 00 64 00 32 00 36 -1
00 37 00 39 00 35 00 34-00 2d 00 65 00 65 00 62 -|
00 37 00 2d 00 31 00 31-00 64 00 31 00 2d 00 62 -|
00 39 00 34 00 65 00 2d-00 30 00 30 00 63 00 30 -|
00 34 00 66 00 61 00 33-00 30 00 38 00 30 00 64 -
00 00 00 00 00 00 10 00-80 64 00 00 00 00 30 -
6e 06 09 2b 06 01 04 01-82 37 12 06 01 01 ff 04 -|
5e 00 30 00 00 00 00 0e-00 3e 00 52 00 4f 00 44 -|
00 45 00 4e 00 54 00 00-00 37 00 38 00 34 00 34 -|
00 30 00 2d 00 30 00 30-00 36 00 2d 00 35 00 38 -|
00 36 00 37 00 30 00 34-00 35 00 2d 00 37 00 30 -|
00 33 00 34 00 37 00 00-00 57 00 4f 00 52 00 4b -I
00 47 00 52 00 4f 00 55-00 50 00 00 00 00 00 30 -|
25 06 03 55 1d 23 01 01-ff 04 1b 30 19 a1 10 a4 -|
0e 52 00 4f 00 44 00 45-00 4e 00 54 00 00 00 82 -|
05 01 00 00 00 02 30 09-06 05 2b 0e 03 02 1d 05 -|
00 03 82 01 01 00 2e eb-c7 0d b8 1d 47 11 9d 09 -
88 9b 51 dc 45 dd 56 51-e2 d1 23 11 39 9b 2d da -|
c7 fe 7a d7 84 e3 3d 54-77 97 4d 19 92 30 64 a0 -1
47 c6 2f 6d 93 d2 64 7c-76 c8 26 45 ad 5a 44 54 -|
ea f6 4b 28 77 1f 77 ea-ec 74 02 38 68 9e 79 14 -|
72 83 34 74 62 d2 c1 0c-a4 0b f2 a9 b0 38 bb 7c -|
d0 ae be bf 74 47 16 a0-a2 d3 fc 1d b9 ba 26 10 -|
06 ef ba 1d 43 01 4e 4e-6f 56 ca e0 ee d0 f9 4e -|
a6 62 63 ff da 0b c9 15-61 6c ed 6b 0b c4 58 53 -|
86 Of 8c Oc 1a 2e df c1-f2 43 48 d4 af Oa 78 36 -|
b2 51 32 28 6c c2 75 79-3f 6e 99 66 88 3e 34 d3 -|
7f 6d 9d 07 e4 6b eb 84-e2 0a bb ca 7d 3a 40 71 -|
b0 be 47 9f 12 58 31 61-2b 9b 4a 9a 49 8f e5 b4 -|
0c f5 04 4d 3c ce bc d2-79 15 d9 28 f4 23 56 77 -|
9f 38 64 3e 03 88 92 04-26 76 b9 b5 df 19 d0 78 -|
4b 7a 60 40 23 91 f1 15-22 2b b4 e7 02 54 a9 16 -|
21 5b 60 96 a9 5c 00 00-00 00 00 00 00 00 00 -
00 00 00 00 00 00
ServerCertificate::pBlob
```

4.2 Client New License Request (CLIENT_NEW_LICENSE_REQUEST)

If the client does not already have a license in its store, it sends the **Client New License Request** message as a response to the **Server License Request** (section <u>2.2.2.1</u>) message. See sections <u>2.2.2.2</u>, and <u>3.3.5.2</u>. For information on ExtendedError, see [MS-EERR].

```
00000000: 13 83 55 01 01 00 00 00-00 00 01 04 dc 73 a0 c8 ......s..
00000010: 69 25 6b 18 af 0b 94 7a-a9 a5 20 af 8b bc 0d cc i%k...z......
00000020: a3 95 b7 b9 eb 81 5d be-0a 10 9c d8 02 00 08 01 .....]......
                                                                     . . . . . . ] . . . . . . . .
00000030: da 9c 5d a6 68 9d a3 90-67 24 f3 3a ea a1 e2 68 ..].h...q$.:...h
00000040: ad 12 f5 f6 0b 7a ac 92-b1 69 6f 42 55 8a a0 e2 ....z...ioBU...
00000050: 9b 2c d0 c7 ee 33 6c 47-79 c3 1e bf 03 8b 95 70
                                                                     .,...31Gy....p
00000060: 07 a2 be ee 54 02 68 f8-90 d7 fe 2c 08 e1 6b 2d
                                                                     ....T.h...,..k-
00000070: ff 94 76 72 5f 7a 76 75-32 55 cc 58 61 63 a5 64
                                                                     ..vr_zvu2U.Xac.d
00000080: f1 6e c3 07 81 82 6f 88-73 62 fc 28 65 91 c2 c8 00000090: 9f 05 b0 d3 93 12 bf 6a-50 18 99 2d 4d c4 7f 74
                                                                     .n...o.sb.(e...
                                                                     .....jP..-M..t
000000A0: d3 30 9f 16 78 a5 df aa-83 65 4f 77 30 42 e0 d7 .0.x...eOw0B..
0000000B0: 69 c8 4d a5 73 11 59 35-b9 a7 e2 b0 f6 e3 b9 39 i.M.s.Y5......9 000000C0: c3 d4 e4 6b ca 40 9a ac-66 e6 1a a4 1b 39 7e 09 ...k.@..f....9~.
000000D0: e3 72 99 dd 90 62 55 97-a9 04 c7 51 aa a2 01 cb
                                                                     .r...bU....Q....
000000E0: 5a 63 4d 1a e5 99 c3 b1-2a 73 e8 9a 00 46 92 59 ZcM.....*s...F.Y
000000F0: 39 a3 80 a1 ac 90 52 ea-63 81 49 7d f3 2d 5c c3 9....R.c.I}.-\.
00000100: 19 9f ed fe 81 1d 8c 04-1c d9 23 d2 6d 80 84 f3 .....#.m...
00000110: 00 f2 b1 69 2f cd b3 9f-69 ee 60 3e 4b b5 be 5a ...i/...i.`>K..Z
00000120: 09 83 0b bc 3d 3e 05 47-65 96 31 8c 6b c5 e6 a0 00000130: 00 00 00 00 00 00 00 00 00 00 00 41 64 6d 69
                                                                     ....=>.Ge.1.k...
00000140: 6e 69 73 74 72 61 74 6f-72 00 10 00 07 00 52 4f nistrator.....RO
00000150: 44 45 4e 54 00
                                                                      DENT.
0x00: LICENSE PREAMBLE (4 bytes)
13 -> LICENSE PREAMBLE::bMsgType = NEW LICENSE REQUEST
83 -> LICENSE PREAMBLE::bVersion = 0x80
             (ExtendedError supported) | 0x3 (RDP 5.0,5.2,6.0)
55 -\
01 -/ LICENSE PREAMBLE::wMsgSize = 0x155
0x04: PreferredKeyGenAlgo (4 bytes)
01 -\
00 -1
00 - 1
00 -/ PreferredKeyGenAlgo = 0x01
0x08: PlatformId (4 bytes)
00 -\
00 -1
01 - 1
04 -/ PlatformId = CLIENT OS ID WINNT POST 52 |
                       CLIENT__IMAGE_ID_MICROSOFT = 0x04010000
0x0c: ClientRandom (0x20 bytes)
dc 73 a0 c8 69 25 6b 18
af 0b 94 7a a9 a5 20 af
8b bc 0d cc a3 95 b7 b9
eb 81 5d be 0a 10 9c d8
0x2c: EncryptedPreMaster (2 + 2 + 0x108 = 0x10c bytes)
02 -\
```

```
00 -/ EncryptedPreMaster::wBlobType
01 -/ EncryptedPreMaster::wBlobLen = 0x108 bytes
da 9c 5d a6 68 9d a3 90-67 24 f3 3a ea a1 e2 68 -\
ad 12 f5 f6 0b 7a ac 92-b1 69 6f 42 55 8a a0 e2 -1
9b 2c d0 c7 ee 33 6c 47-79 c3 1e bf 03 8b 95 70 -|
07 a2 be ee 54 02 68 f8-90 d7 fe 2c 08 e1 6b 2d -|
ff 94 76 72 5f 7a 76 75-32 55 cc 58 61 63 a5 64 -|
f1 6e c3 07 81 82 6f 88-73 62 fc 28 65 91 c2 c8 -|
9f 05 b0 d3 93 12 bf 6a-50 18 99 2d 4d c4 7f 74 -|
d3 30 9f 16 78 a5 df aa-83 65 4f 77 30 42 e0 d7 -|
69 c8 4d a5 73 11 59 35-b9 a7 e2 b0 f6 e3 b9 39 -|
c3 d4 e4 6b ca 40 9a ac-66 e6 1a a4 1b 39 7e 09 -|
e3 72 99 dd 90 62 55 97-a9 04 c7 51 aa a2 01 cb -|
5a 63 4d 1a e5 99 c3 b1-2a 73 e8 9a 00 46 92 59 -|
39 a3 80 a1 ac 90 52 ea-63 81 49 7d f3 2d 5c c3 -|
19 9f ed fe 81 1d 8c 04-1c d9 23 d2 6d 80 84 f3 -|
00 f2 b1 69 2f cd b3 9f-69 ee 60 3e 4b b5 be 5a -|
09 83 0b bc 3d 3e 05 47-65 96 31 8c 6b c5 e6 a0 -|
00 00 00 00 00 00 00 00
EncryptedPreMaster::pBlob
The decrypted pre-master data for the above blob is as
cf 7a db cb fb 0e 15 23-87 1c 84 81 ba 9d 4e 15
bb d2 56 bd d8 f7 f3 16-cc 35 3b e1 93 42 78 dd
92 9a e4 7a e2 99 d4 73-b1 aa 6f 55 94 3b c9 bc
0x138: ClientUserName (2 + 2 + 0xe = 0x12 bytes)
0f -\
00 -/ ClientUserName::wBlobType = BB CLIENT USER NAME
0e -\
00 -/ ClientUserName::wBlobLen = 0xe bytes
41 64 6d 69 6e 69 73 74 -\
72 61 74 6f 72 00 -/ ClientUserName::blobData
0x14a: ClientMachineName (2 + 2 + 7 = 0xb bytes)
00 -/ ClientMachineName::wBlobType = BB CLIENT MACHINE NAME
00 -/ ClientMachineName::wBlobLen = 7 bytes
52 4f 44 45 4e 54 00 -> ClientMachineName::blobData
```

4.3 Client License Information (CLIENT_LICENSE_INFO)

If the client already has a license in its **store**, it sends the license in the **Client License Information** message as a response to the **Server License Request** (section <u>2.2.2.1</u>) message. See sections <u>2.2.2.3</u> and <u>3.3.5.3</u>.

000000D0:	2 -	21	57	hΛ	3 -	3 -	~ d	35-70	41	hd	20	20	0.4	02	40	*1W.::.5p)
																-
000000E0:	f5							5b-55								. .:/[Uz.7G
000000F0:	£9	1d	a3	89	5a	cf	66	b2-4d	b2	83	db	c2	45	с8	3b	Z.f.ME.;
00000100:	86	31	1 c	2 f	а7	59	1 a	09-89	56	ല	1.8	09	40	35	1 a	.1./.YVL5.
00000110:	4 /	5C	ರಿತ	35	İΖ	09	UΙ	bf-6a	02	рc	ΪC	be	15	аб	8C	G\.5ju
00000120:	70	2e	3b	03	73	64	b4	13-89	0c	1e	a4	3e	49	e9	b9	p.;.sd>I
00000130:	00							00-01								
00000140:	06	09	2a	86	48	86	± /	0d-01	0.7	02	аU	82	0.7	86	30	*.H0
00000150:	82	07	82	02	01	01	31	00-30	0b	06	09	2a	86	48	86	1.0*.H.
	f7															
00000160:								07-6a								j00
00000170:	dd	a0	03	02	01	02	02	08-01	9e	27	4d	68	ac	ed	20	'Mh
00000180:	30	09	0.6	0.5	2h	00	03	02-1d	05	00	30	32	31	30	30	0+02100
00000190:	13							0c-00								UR.O.D.E
000001A0:	00	4e	00	54	30	19	06	03-55	04	07	1e	12	00	57	00	.N.T0UW.
000001B0:	1 F							00-52								O.R.K.G.R.O.U.P0
000001C0:	1e	17	0d	37	30	30	35	33-30	3 I	30	33	36	3 I	38	5a	700530103618Z
000001D0:	17	0d	34	39	30	35	33	30-31	30	33	36	31	38	5a	30	490530103618Z0
000001E0:	32							55-04								2100UR.O
000001F0:	00	44	00	45	00	4e	00	54-30	19	06	03	55	04	07	1e	.D.E.N.T0U
00000200:	12	00	57	0.0	4 f	0.0	52	00-4b	0.0	47	0.0	52	0.0	4 f	0.0	W.O.R.K.G.R.O.
	55															
00000210:								30-0d								U.PO"O*.H
00000220:	0d	01	01	01	05	00	03	82-01	0f	00	30	82	01	0a	02	0
00000230:	82	0.1	0.1	$\cap \cap$	88	ad	70	8f-8b	82	76	5 a	hd	RΕ	6£	62	vZob
00000240:								68-01						04		Ah45.)
00000250:	4a	4a	1c	7e	80	14	£7	8e-77	b8	25	ff	16	47	6f	bd	JJ.~w.%Go.
00000260:	62	34	34	20	02	h9	53	e4-33	75	ad	73	28	80	a0	4d	.4=S.3u.s(M
00000270:	İC	6C	CU	22	53	Tp	2c	f8-f5	UΙ	60	19	/e	19	19	39	.1."S.,`.~y.9
00000280:	8d	b5	ce	39	58	dd	55	24-3b	55	7b	43	c1	7f	14	2f	9x.U\$;U{C/
00000290:	b0							49-0c					15	£5	45	.d:T.+.I.aE
000002A0:	88	18	5f	ae	42	Í8	75	c7-26	6d	b5	dd	39	6 Í	CC	55	B.u.&m9o.U
000002B0:	1b	32	11	38	8d	e4	e9	44-84	11	36	a2	61	76	aa	4c	.2.8D6.av.L
000002C0:	b4							de-e3							58	UwAX
000002D0:	aa	C9	34	a2	98	C6	UΙ	1a-76	⊥4	UΙ	а8	dc	30	/ C	7.7	4v0 w
000002E0:	5a	20	71	5a	a2	3f	af	13-7e	e8	fd	84	a2	5b	cf	25	Z qZ.?~[.%
000002F0.	09					8h	84	c7-04	50	53	73	40	Ωe	89	аЗ	
000002F0:		с7	8f	a8	f2			c7-04								^SsN
00000300:	3с	c7 e7	8f 68	a8 5c	f2 24	b7	80	53-3c	54	с8	c1	53	aa	71	71	^SsN <.h\\$S <ts.qq< td=""></ts.qq<>
	3с	c7 e7	8f 68	a8 5c	f2 24	b7	80		54	с8	c1	53	aa	71	71	^SsN
00000300:	3c 3d	c7 e7 36	8f 68 15	a8 5c d6	f2 24 6a	b7 9d	80 7d	53-3c	54 f9	c8 e6	c1 af	53 57	aa ae	71 b9	71 01	^SsN <.h\\$S <ts.qq< td=""></ts.qq<>
00000300: 00000310: 00000320:	3c 3d 96	c7 e7 36 5d	8f 68 15 e0	a8 5c d6 4d	f2 24 6a cd	b7 9d ed	80 7d c8	53-3c de-ae d7-f3	54 f9 01	c8 e6 03	c1 af 38	53 57 10	aa ae be	71 b9 7c	71 01 42	^SsN <.h\\$S <ts.qq =6j.}W .].M8 B</ts.qq
00000300: 00000310: 00000320: 00000330:	3c 3d 96 67	c7 e7 36 5d 01	8f 68 15 e0 a7	a8 5c d6 4d 23	f2 24 6a cd 02	b7 9d ed 03	80 7d c8 01	53-3c de-ae d7-f3 00-01	54 f9 01 a3	c8 e6 03 13	c1 af 38 30	53 57 10 11	aa ae be 30	71 b9 7c 0f	71 01 42 06	^SsN <.h\\$S <ts.qq =6j.}W .].M8 B g#0.0.</ts.qq
00000300: 00000310: 00000320: 00000330: 00000340:	3c 3d 96 67 03	c7 e7 36 5d 01 55	8f 68 15 e0 a7 1d	a8 5c d6 4d 23 13	f2 24 6a cd 02 04	b7 9d ed 03 08	80 7d c8 01 30	53-3c de-ae d7-f3 00-01 06-01	54 f9 01 a3 01	c8 e6 03 13 ff	c1 af 38 30 02	53 57 10 11 01	aa ae be 30 00	71 b9 7c 0f 30	71 01 42 06 09	^SsN <.h\\$S <ts.qq =6j.}W .].M8 B g#0.0</ts.qq
00000300: 00000310: 00000320: 00000330:	3c 3d 96 67	c7 e7 36 5d 01 55	8f 68 15 e0 a7 1d	a8 5c d6 4d 23 13	f2 24 6a cd 02 04	b7 9d ed 03 08	80 7d c8 01 30	53-3c de-ae d7-f3 00-01	54 f9 01 a3 01	c8 e6 03 13 ff	c1 af 38 30 02	53 57 10 11 01	aa ae be 30 00	71 b9 7c 0f 30	71 01 42 06 09	^SsN <.h\\$S <ts.qq =6j.}W .].M8 B g#0.0.</ts.qq
00000300: 00000310: 00000320: 00000330: 00000340: 00000350:	3c 3d 96 67 03	c7 e7 36 5d 01 55 05	8f 68 15 e0 a7 1d 2b	a8 5c d6 4d 23 13 0e	f2 24 6a cd 02 04 03	b7 9d ed 03 08 02	80 7d c8 01 30 1d	53-3c de-ae d7-f3 00-01 06-01 05-00	54 f9 01 a3 01 03	c8 e6 03 13 ff 82	c1 af 38 30 02 01	53 57 10 11 01	aa ae be 30 00	71 b9 7c 0f 30 70	71 01 42 06 09 db	^SsN <.h\\$S <ts.qq =6j.}w].m8 b="" g#0.0u00p.<="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000340: 00000350: 00000360:	3c 3d 96 67 03 06 21	c7 e7 36 5d 01 55 05 2b	8f 68 15 e0 a7 1d 2b 84	a8 5c d6 4d 23 13 0e 9a	f2 24 6a cd 02 04 03 7a	b7 9d ed 03 08 02 c3	80 7d c8 01 30 1d b1	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa	54 f9 01 a3 01 03 c0	c8 e6 03 13 ff 82 00	c1 af 38 30 02 01 8b	53 57 10 11 01 01 71	aa ae be 30 00 00 ab	71 b9 7c 0f 30 70 43	71 01 42 06 09 db 9f	^SsN <.h\\$S <ts.qq !+z.hq.c.<="" =6j.}w].m8 b="" g#0.0u00+p.="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000340: 00000350: 00000370:	3c 3d 96 67 03 06 21 b6	c7 e7 36 5d 01 55 05 2b 7b	8f 68 15 e0 a7 1d 2b 84 b7	a8 5c d6 4d 23 13 0e 9a 1f	f2 24 6a cd 02 04 03 7a 20	b7 9d ed 03 08 02 c3 83	80 7d c8 01 30 1d b1 ac	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5	54 f9 01 a3 01 03 c0	c8 e6 03 13 ff 82 00 ad	c1 af 38 30 02 01 8b b6	53 57 10 11 01 01 71 36	aa ae be 30 00 00 ab ef	71 b9 7c 0f 30 70 43 65	71 01 42 06 09 db 9f 17	^SsN <.h\\$S <ts.qq .+<="" =6j.}w].m8 b="" g#0.0u00="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000340: 00000350: 00000370: 00000380:	3c 3d 96 67 03 06 21 b6 99	c7 e7 36 5d 01 55 05 2b 7b 86	8f 68 15 e0 a7 1d 2b 84 b7 8a	a8 5c d6 4d 23 13 0e 9a 1f 3d	f2 24 6a cd 02 04 03 7a 20 ba	b7 9d ed 03 08 02 c3 83 0c	80 7d c8 01 30 1d b1 ac 53	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3	54 f9 01 a3 01 03 c0 0e 75	c8 e6 03 13 ff 82 00 ad a0	c1 af 38 30 02 01 8b b6 f3	53 57 10 11 01 01 71 36 11	aa ae be 30 00 00 ab ef 3d	71 b9 7c 0f 30 70 43 65 e7	71 01 42 06 09 db 9f 17 65	^SsN <.h\\$S <ts.qq !+z.hq.c{6.ee.ee.ee.ee.ee.ee.e.<="" .+p="" =6j.}w].m8 b="" g#0.0u00="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000340: 00000350: 00000370:	3c 3d 96 67 03 06 21 b6 99	c7 e7 36 5d 01 55 05 2b 7b 86	8f 68 15 e0 a7 1d 2b 84 b7 8a	a8 5c d6 4d 23 13 0e 9a 1f 3d	f2 24 6a cd 02 04 03 7a 20 ba	b7 9d ed 03 08 02 c3 83 0c	80 7d c8 01 30 1d b1 ac 53	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5	54 f9 01 a3 01 03 c0 0e 75	c8 e6 03 13 ff 82 00 ad a0	c1 af 38 30 02 01 8b b6 f3	53 57 10 11 01 01 71 36 11	aa ae be 30 00 00 ab ef 3d	71 b9 7c 0f 30 70 43 65 e7	71 01 42 06 09 db 9f 17 65	^SsN <.h\\$S <ts.qq .+<="" =6j.}w].m8 b="" g#0.0u00="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000340: 00000350: 00000360: 00000370: 00000380: 00000390:	3c 3d 96 67 03 06 21 b6 99 4b	c7 e7 36 5d 01 55 05 2b 7b 86 ae	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c	a8 5c d6 4d 23 13 0e 9a 1f 3d 42	f2 24 6a 02 04 03 7a 20 ba 70	b7 9d 03 08 02 c3 83 0c 11	80 7d c8 01 30 1d b1 ac 53 dc	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 ca-83	54 f9 01 a3 01 03 c0 0e 75 c0	c8 e6 03 13 ff 82 00 ad a0 be	c1 af 38 30 02 01 8b b6 f3 3e	53 57 10 11 01 71 36 11 97	aa ae be 30 00 00 ab ef 3d 71	71 b9 7c 0f 30 70 43 65 e7 84	71 01 42 06 09 db 9f 17 65 69	^SsN <.h\\$S <ts.qq !+z.hq.c{6.ee.="" =6j.}w].m8 b="" g#0.0u00p.="" k.<bp="">.q.i</ts.qq>
00000300: 00000310: 00000320: 00000330: 00000350: 00000360: 00000370: 00000380: 00000390:	3c 3d 96 67 03 06 21 b6 99 4b d6	c7 e7 36 5d 01 55 2b 7b 86 ae a8	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c 27	a8 5c d6 4d 23 13 0e 9a 1f 3d 42 33	f2 24 6a cd 02 04 03 7a 20 ba 70 9b	b7 9d ed 03 08 02 c3 83 0c 11 3e	80 7d c8 01 30 1d b1 ac 53 dc 17	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 ca-83 3c-a0	54 f9 01 a3 01 03 c0 0e 75 c0 4c	c8 e6 03 13 ff 82 00 ad a0 be 64	c1 af 38 30 02 01 8b b6 f3 3e ca	53 57 10 11 01 71 36 11 97 20	aa ae be 30 00 00 ab ef 3d 71 37	71 b9 7c 0f 30 70 43 65 e7 84 a4	71 01 42 06 09 db 9f 17 65 69	^SsN <.h\\$S <ts.qq .++<="" =6j.}w].m8 b="" g#0.0u00="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000350: 00000360: 00000370: 00000380: 00000380: 00000380:	3c 3d 96 67 03 06 21 b6 99 4b d6 a9	c7 36 5d 01 55 2b 7b 86 ae a8 28	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c 27 8f	a8 5c d6 4d 23 13 0e 9a 1f 3d 42 33 b7	f2 24 6a cd 02 04 03 7a 20 ba 70 9b 18	b7 9d ed 03 08 02 c3 83 0c 11 3e 96	80 7d c8 01 30 1d b1 ac 53 dc 17	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 ca-83 3c-a0 15-0d	54 f9 01 a3 01 03 c0 0e 75 c0 4c 74	c8 e6 03 13 ff 82 00 ad a0 be 64 04	c1 af 38 30 02 01 8b b6 f3 3e ca 75	53 57 10 11 01 71 36 11 97 20 2a	aa ae be 30 00 00 ab ef 3d 71 37	71 b9 7c 0f 30 70 43 65 e7 84 a4 c7	71 01 42 06 09 db 9f 17 65 69 11 a6	^SsN <.h\\$S <ts.qq .++<="" =6j.}w].m8 b="" g#0.0u00="" td=""></ts.qq>
00000300: 00000310: 00000320: 00000330: 00000350: 00000360: 00000370: 00000380: 00000390:	3c 3d 96 67 03 06 21 b6 99 4b d6 a9	c7 36 5d 01 55 2b 7b 86 ae a8 28	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c 27 8f	a8 5c d6 4d 23 13 0e 9a 1f 3d 42 33 b7	f2 24 6a cd 02 04 03 7a 20 ba 70 9b 18	b7 9d ed 03 08 02 c3 83 0c 11 3e 96	80 7d c8 01 30 1d b1 ac 53 dc 17	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 ca-83 3c-a0	54 f9 01 a3 01 03 c0 0e 75 c0 4c 74	c8 e6 03 13 ff 82 00 ad a0 be 64 04	c1 af 38 30 02 01 8b b6 f3 3e ca 75	53 57 10 11 01 71 36 11 97 20 2a	aa ae be 30 00 00 ab ef 3d 71 37	71 b9 7c 0f 30 70 43 65 e7 84 a4 c7	71 01 42 06 09 db 9f 17 65 69 11 a6	^SsN <.h\\$S <ts.qq !+zhq.c6.e6.ee="" =6j.}w].m8 b="" g#0.0u00+p="" k.<bp="">.q.i'3.><.Ld. 7 (i.t.u* jl4t]</ts.qq>
00000300: 00000310: 00000320: 00000330: 00000340: 00000360: 00000370: 00000380: 00000380: 00000380: 00000380:	3c 3d 96 67 03 06 21 b6 99 4b d6 a9	c7 e7 36 5d 01 55 2b 7b 86 ae a8 28 be	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c 27 8f ac	a8 5c d6 4d 23 13 0e 9a 1f 3d 42 33 b7 b3	f2 24 6a cd 02 04 03 7a 20 ba 70 9b 18 f2	b7 9d 03 08 02 c3 83 0c 11 3e 96 fb	80 7d c8 01 30 1d b1 ac 53 dc 17 69 06	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 ca-83 3c-a0 15-0d 1b-6c	54 f9 01 a3 01 03 c0 0e 75 c0 4c 74 11	c8 e6 03 13 ff 82 00 ad a0 be 64 04 bd	c1 af 38 30 02 01 8b b6 f3 ca 75 96	53 57 10 11 01 71 36 11 97 20 2a e2	aa ae be 30 00 00 ab ef 3d 71 37 00 34	71 b9 7c 0f 30 70 43 65 e7 84 a4 c7	71 01 42 06 09 db 9f 17 65 69 11 a6 5d	^SsN <.h\\$S <ts.qq !+zhq.c6.e6.ee="" =6j.}w].m8 b="" g#0.0u00+p="" k.<bp="">.q.i'3.><.Ld. 7 (i.t.u* jl4t]</ts.qq>
00000300: 00000310: 00000320: 00000330: 00000350: 00000370: 00000370: 00000380: 00000380: 00000380: 000003B0: 000003D0:	3c 3d 96 67 03 06 21 b6 99 4b d6 a9 6a f5	c7 e7 36 5d 01 55 05 2b 7b 86 ae a8 28 be 98	8f 68 15 e0 a7 1d 2b 84 b7 8a 3c 27 8f ac 8f	a8 5c d6 4d 23 13 0e 9a 1f 3d 42 33 b7 b3 3a	f2 24 6a cd 02 04 03 7a 20 ba 70 9b 18 f2 8d	b7 9d 03 08 02 c3 83 0c 11 3e 96 fb	80 7d c8 01 30 1d b1 ac 53 dc 17 69 06	53-3c de-ae d7-f3 00-01 05-00 68-fa 0a-b5 2e-a3 ca-83 3c-a0 15-0d 1b-6c 6f-53	54 f9 01 a3 01 03 c0 0e 75 c0 4c 74 11	c8 e6 03 13 ff 82 00 ad a0 be 64 bd 4e	c1 af 38 30 02 01 8b b6 f3 ca 75 96 39	53 57 10 11 01 71 36 11 97 20 2a e2 80	aa ae be 30 00 ab ef 3d 71 37 00 34 90	71 b9 7c 0f 30 70 43 65 e7 84 c7 74 ce	71 01 42 06 09 db 9f 17 65 69 11 a6 5d 8b	^SsN <.h\\$S <ts.qq !+zhq.c{6.ee.="" =6j.}w].m8 b="" g#0.0u00+p="" k.<bp="">.q.i'3.><.Ld. 7 (it.u* j14t]i.oS.N9</ts.qq>
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00000300: 00000310: 00000320: 00000330: 00000340: 00000350: 00000370: 00000380: 00000400: 00000400: 00000440: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480: 00000480:	3c 3d 96 67 03 62 1 b6 99 4b d6 a9 6a f5 e ab 49 b8 66 93 77 4 00 00 57 50 5 a 00 07	c7 e7 36 5d 01 5 05 2b 6a a8 28 e 38 62 29 df a9 8 87 0f 03 03 a4f 1e	8f 68 15 e0 a7 d 2b 4 b7 8 a 27 f 6b 1e c 30 30 4f e17 f 00 a	a8 5c d6 4d 23 13 b7 b3 a2d 60 2d 13 a5 32d 60 4e 00 17 d 31 44 00	f2 24 6a cd 02 4a 70 9b 18 f2 6d cc 4a 6a 832 03 06 52 0d 37d 00 41	b7 9d 03 08 02 03 02 83 02 11 3e 6b 55 05 55 05 55 00 37 37 37 45 00 00 00 00 00 00 00 00 00 00 00 00 00	80 7d 80 130 db1 ac 53 dc 17 69 06 8 fd 8 90 4 52 53 33 dc 2b 4 30 4b 30 50 50 50 50 50 50 50 50 50 50 50 50 50	53-3c de-ae d7-f3 00-01 05-00 68-fa 0a-b5 2e-a3 3c-a0 15-6c 6f-53 58-3d f4-02 dd-bf 22-41 1c-d9 fc-c0 1e-86 c4-15 03-02 0e-03 03-1e 19-06 00-47 30-36 39-31 06-03 4e-00 00-6d	54 f9 01 a3 01 00 75 c0 4c 74 11 23 23 e5 ad 19 75 d0 03 03 03 03 03 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05	c8 e6 03 13 ff 200 ad a0 be 64 427 16 a9 32 79 33 750 21d 00 55 52 30 4 30 69	c1 af 38 30 02 18 b6 f3 3e ca 75 6 96 9 b3 c3 2e 1e 22 e5 0 68 02 05 52 04 00 31 4 03 21 00	53 57 10 11 01 17 36 11 97 20 22 e2 87 52 f1 3b 42 60 60 60 60 60 60 60 60 60 60 60 60 60	aa ae be 30 00 0 ab ef 3d 71 37 00 34 a7 da 095 30 4f 1e 00 351 00 00	71 b9 7c 0f 30 465 e7 84 a4 c7 7c e9f 889 3b f7a 300 320 55 313 569	71 01 42 06 09 db 17 65 69 11 a6 db 3b 05 8a 37 47 40 00 31 44 00 00 33 52 04 00 00 00 00 00 00 00 00 00 00 00 00	^SsN <.h\\$S <ts.qq =6j.}w].m8 b="" g#0.0u00!+zhq.c{6.ee.="" k.<bp="">.q.i'3.><.Ld. 7 (i.t.u*;l4t]:i.oS.N9 ^.#U.X=9'. W.; .b&`#.R]. I.q-m[</ts.qq>
00000300: 00000310: 00000320: 00000330: 00000350: 00000360: 00000370: 00000380: 00000380: 000003B0: 000004B0: 0000004B0: 000004B0: 000004B0: 000004B0:	3c 3d 96 67 03 62 1 b6 99 4b d6 a9 6a f5 e ab 49 b8 66 93 77 4 00 00 57 50 35 a 00 07 73	c7 e7 36 5d 01 5 55 2b 7b 86 a 88 28 b 98 88 62 a 9 df a 98 45 00 30 a 45 00 30 a 45 00	8f 68 15 e0 a7 d 2b4 b7 8a c27 f 6b 1e 0 c1 10 4f e1 17 f 00 1a 74	a8 5c d6 4dd 23 13 09 a 1f 3dd 42 33 b7 3 a 2dd 60 2d 13 a 5 0 06 4e 00 17 d 3dd 40 00 00	f2 24 6a cd 02 04 70 9b 18 f2 6d cc 4a 6a 80 03 04 04 05 06 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06	b7 9d ed 03 082 023 83 0c 11 3e 6 55 05 55 4 00 30 7 30 45 00 00	80 7d 80 11 30 40 53 4c 53 4c 53 69 69 60 86 40 52 55 55 33 40 40 40 40 40 40 40 40 40 40 40 40 40	53-3c de-ae d7-f3 00-01 06-01 05-00 68-fa 0a-b5 2e-a3 3c-a0 15-0d 1b-6c 6f-53 58-3d f4-02 dd-bf 22-41 1c-d9 fc-c0 1e-86 c4-15 03-02 0e-03 03-1e 19-06 00-47 30-36 39-31 06-03 4e-00	54 f9 01 a3 01 00 60 75 c0 4c 74 11 23 23 e5 ad 19 75 d0 03 00 32 85 65 65 66 67 67 67 67 67 67 67 67 67 67 67 67	c8 e6 33 13 ff 200 ad a0 bd 427 63 32 97 33 75 02 dd 30 64 427 65 55 20 31 430 69 6f	c1 af 38 30 02 18 b6 f3 3e ca 75 96 96 05 2e 1e 2e 50 04 00 31 34 32 100 00	53 57 10 11 01 17 36 11 97 20 22 e2 87 52 f1 3b 42 60 60 60 60 60 60 60 60 60 60 60 60 60	aa ae be 30 00 0 ab ef 3d 71 37 00 34 a7 da 0e 5 31 c 00 35 31 c 00 30 30	71 b9 7cf 30 743 657 844 4c77 4cf eff 889 3bf 7b3 300 1255 313 300 559 43	71 01 42 06 09 db 17 65 69 11 a6 8b 305 8a 37 47 4a 00 31 44 00 00 33 50 00 00 00 00 00 00 00 00 00 00 00 00	^SsN <.h\\$S <ts.qq =6j.}w].m8 b="" g#0.0u00!+<="" td=""></ts.qq>

```
00000520: 00 64 00 79 00 32 00 6b-00 72 00 4f 00 34 00 2f .d.y.2.k.r.o.4./
00000530: 00 4d 00 43 00 44 00 4c-00 49 00 31 00 41 00 48
                                                                            .M.C.D.L.I.1.A.H
00000540: 00 5a 00 63 00 50 00 69-00 61 00 73 00 3d 00 0d .Z.c.P.i.a.s.=..
00000550: 00 0a 30 82 01 22 30 0d-06 09 2a 86 48 86 f7 0d
                                                                            ..0.."0...*.H...
                                                                            ...........
00000560: 01 01 01 05 00 03 82 01-0f 00 30 82 01 0a 02 82
00000570: 01 01 00 88 ad 7c 8f 8b-82 76 5a bd 8f 6f 62 18
                                                                             .....|...vZ..ob.
00000580: e1 d9 aa 41 fd ed 68 01-c6 34 35 b0 29 04 ca 4a
                                                                            ...A..h..45.)..J
00000590: 4a 1c 7e 80 14 f7 8e 77-b8 25 ff 16 47 6f bd e2
                                                                            J.~...w.%..Go..
000005A0: 34 3d 2e 02 b9 53 e4 33-75 ad 73 28 80 a0 4d fc 4=...S.3u.s(..M. 000005B0: 6c c0 22 53 1b 2c f8 f5-01 60 19 7e 79 19 39 8d 1."S.,...`~y.9.
000005C0: b5 ce 39 58 dd 55 24 3b-55 7b 43 c1 7f 14 2f b0
                                                                            ..9X.U$;U{C.../.
                                                                            d:T.+.I.a-..E...
000005D0: 64 3a 54 95 2b 88 49 0c-61 2d ac f8 45 f5 da 88
000005E0: 18 5f ae 42 f8 75 c7 26-6d b5 bb 39 6f cc 55 1b 000005F0: 32 11 38 8d e4 e9 44 84-11 36 a2 61 76 aa 4c b4
                                                                            ._.B.u.&m..9o.U.
2.8...D..6.av.L.
00000600: e3 55 0f e4 77 8e de e3-a9 ea b7 41 94 00 58 aa .U..w.....A..X.
00000610: c9 34 a2 98 c6 01 1a 76-14 01 a8 dc 30 7c 77 5a 00000620: 20 71 5a a2 3f af 13 7e-e8 fd 84 a2 5b cf 25 e9
                                                                            .4....v...0|wZ
                                                                            qZ.?..~...[.%.
00000630: c7 8f a8 f2 8b 84 c7 04-5e 53 73 4e 0e 89 a3 3c
                                                                            .....^SsN...<
                                                                             .h\$..S<T..S.qq=
00000640: e7 68 5c 24 b7 80 53 3c-54 c8 c1 53 aa 71 71 3d
00000650: 36 15 d6 6a 9d 7d de ae-f9 e6 af 57 ae b9 01 96 00000660: 5d e0 4d cd ed c8 d7 f3-01 03 38 10 be 7c 42 67
                                                                            6..j.}....₩....
                                                                            ].M.....8..|Bq
00000670: 01 a7 23 02 03 01 00 01-a3 82 01 47 30 82 01 43
                                                                            00000680: 30 14 06 09 2b 06 01 04-01 82 37 12 04 01 01 ff 0...+....7.....
00000690: 04 04 01 00 05 00 30 3c-06 09 2b 06 01 04 01 82 .....0<...+....
000006A0: 37 12 02 01 01 ff 04 2c-4d 00 69 00 63 00 72 00
                                                                             7....,M.i.c.r.
000006B0: 6f 00 73 00 6f 00 66 00-74 00 20 00 43 00 6f 00 o.s.o.f.t. .C.o. 000006C0: 72 00 70 00 6f 00 72 00-61 00 74 00 69 00 6f 00 r.p.o.r.a.t.i.o. 000006D0: 6e 00 00 00 30 56 06 09-2b 06 01 04 01 82 37 12 n...0V.++....7.
000006E0: 05 01 01 ff 04 46 00 30-00 00 01 00 00 00 ff 00
                                                                            .....F.O.....
000006F0: 00 00 04 00 00 1c 00-08 00 24 00 16 00 3a 00 00000700: 01 00 41 00 30 00 32 00-00 00 41 00 30 00 32 00
                                                                            .....$....
                                                                             ..A.0.2...A.0.2.
00000710: 2d 00 36 00 2e 00 30 00-30 00 2d 00 53 00 00 00
                                                                             -.6...0.0.-.s...
                                                                             ....d....On..
00000720: 06 00 00 00 00 80 64 80-00 00 00 30 6e 06 09
00000730: 2b 06 01 04 01 82 37 12-06 01 01 ff 04 5e 00 30 00000740: 00 00 00 00 0e 00 3e 00-52 00 4f 00 44 00 45 00
                                                                             .....>.R.O.D.E.
00000750: 4e 00 54 00 00 00 37 00-38 00 34 00 34 00 30 00 N.T...7.8.4.4.0.
00000760: 2d 00 30 00 30 00 36 00-2d 00 37 00 30 00 38 00 -0.0.6.-.5.8.6. 00000770: 37 00 30 00 34 00 35 00-2d 00 37 00 30 00 33 00 7.0.4.5.-.7.0.3. 00000780: 34 00 37 00 00 00 57 00-4f 00 52 00 4b 00 47 00 4.7...W.O.R.K.G.
00000790: 52 00 4f 00 55 00 50 00-00 00 00 00 30 25 06 03 R.O.U.P.....0%..
000007A0: 55 1d 23 01 01 ff 04 1b-30 19 a1 10 a4 0e 52 00 U.#....0....R. 000007B0: 4f 00 44 00 45 00 4e 00-54 00 00 08 2 05 03 00 O.D.E.N.T.....
000007c0: 00 00 0f 30 09 06 05 2b-0e 03 02 1d 05 00 03 82 ...0...+.....
000007D0: 01 01 00 13 1b dc 89 d2-fc 54 0c ee 82 45 68 6a 000007E0: 72 c3 3e 17 73 96 53 44-39 50 0e 0b 9f 95 d6 2c
                                                                            ........T...Ehj
                                                                             r.>.s.SD9P....,
000007F0: 6b 53 14 9c e5 55 ed 65-df 2a eb 5c 64 85 70 1f
                                                                            kS...U.e.*.\d.p.
00000800: bc 96 cf a3 76 b1 72 3b-e1 f6 ad ad ad 2a 14 af
                                                                            ....v.r;.....*..
00000810: ba d0 d6 d5 6d 55 ec 1e-c3 4b ba 06 9c 59 78 93 ....mU...K...Yx. 00000820: 64 87 4b 03 f9 ee 4c dd-36 5b bd d4 e5 4c 4e da d.K...L.6[...LN.
00000830: 7b c1 ae 23 28 9e 77 6f-0f e6 94 fe 05 22 00 ab {..#(.wo...."..
00000840: 63 5b e1 82 45 a6 ec 1f-6f 2c 7b 56 de 78 25 7d c[..E...o,{V.x%} 00000850: 10 60 0e 53 42 4b 6c 7a-6b 5d c9 d5 a6 ae c8 c8 .\.SBKlzk].....
00000860: 52 29 d6 42 56 02 ec f9-23 a8 8c 8d 89 c9 7c 84 R).BV..#....|.
00000870: 07 fc 33 el le ea e2 8f-2b be 8f a9 d3 d1 el 5e
                                                                            ..3.....
00000880: 0b dc b6 43 6e 33 0a f4-2e 9d 0c c9 58 54 34 aa 00000890: e1 d2 a2 e4 90 02 23 26-a0 92 26 26 0a 83 b4 4d
                                                                             ...Cn3.....XT4.
                                                                            ....#&..&&...M
000008A0: d9 4b ef eb 9d a9 24 3f-92 8b db 04 7b 9d 64 91 .K....$?....{.d.
000008B0: a4 4b d2 6e 51 05 08 c9-91 af 31 26 55 21 b1 ea .K.nQ.....1&U!..
000008CO: ce a3 a4 0d 5e 4c 46 db-16 2d 98 dc 60 19 b8 1b
                                                                            ....^LF..-..`...
000008D0: b9 cd fb 31 00 01 00 14-00 b9 30 59 3b 93 61 c9
                                                                            ...1.....0Y;.a.
000008E0: f6 b6 0b 1f dc 1a 85 67-39 dc 29 65 62 42 a2 13
                                                                            .....g9.)ebB..
000008F0: c7 54 ae b5 d5 24 66 54-f3 1b af 8d fb
                                                                             .T...$fT....
0x00: LICENSE PREAMBLE (4 bytes)
                                  12 -> LICENSE PREAMBLE::bMsgType = CLIENT LICENSE INFO
83 -> LICENSE PREAMBLE::bVersion = 0x80 | 0x3
```

```
08 -/ LICENSE PREAMBLE::wMsqSize = 0x8fd bytes
0x04: PreferredKeyExchgAlg (4 bytes)
01 -\
00 -1
00 -1
00 -/ CLIENT LICENSE INFO::dwPrefKeyExchangeAlg = 1
0x08: PlatformId (4 bytes)
00 -\
00 - 1
01 -|
04 -/ CLIENT LICENSE INFO::dwPlatformId = 0x04010000
0x0c: Client Random (0x20 bytes)
         26 c9 32 34 7d 2b e1 75 -\
50 5e 47 7e-76 8d 78 7b -|
bb 21 aa b7 b0 b8 ea 6c -|
dd c1 b0 01-e6 13 be d8 -/ CLIENT LICENSE INFO::ClientRandom
0x2c: EncryptedPreMaster (2 + 2 + 0x108 = 0x10c bytes)
02 -\
00 -/ EncryptedPreMasterSecret::wBlobType
08 -\
01 -/ EncryptedPreMasterSecret::wBlobLen
b1 fa 1c 25 d9 5e 9d 04-cd d2 d4 34 c6 a2 e6 f3 -\
a2 bf bc 53 8a 0e 15 cf-1c 1a 99 bb 49 dc 9e 71 -|
39 03 78 ce 5d 72 29 09-3a 86 b1 1d e8 b1 38 07 -|
29 62 87 84 1e cc 95 b0-49 19 a0 cf 27 90 9a ef -|
d6 a9 9a f4 66 d9 d2 e9-64 ee 4a aa e4 22 d6 44 -|
b8 72 79 3a d2 82 09 e1-1f 85 69 3e 09 68 c3 fa -|
36 e2 ba 3c c5 4c 46 7d-68 42 2d 03 bf e0 03 d4 -|
13 45 da 21 14 32 41 86-c4 00 d0 42 ef 68 ee 9c -|
0a 1a d9 42 6f 64 7b e4-b9 61 db be 52 e6 3e 63 -|
dc ec 7e 97 a0 0d 87 82-be 56 be 29 8b 7d 27 bd -|
2a 31 57 b0 3a 3a ad 35-70 d4 bd 29 20 8d 82 dc -|
f5 7c f9 3a 2f 0d a2 5b-55 7a 95 37 af d5 d8 47 -|
f9 1d a3 89 5a cf 66 b2-4d b2 83 db c2 45 c8 3b -|
86 31 1c 2f a7 59 1a 09-89 56 ed 18 09 4c 35 1a -|
47 5c b3 35 f2 09 01 bf-6a 02 bc fc be 75 a6 8c -|
70 2e 3b 03 73 64 b4 13-89 0c 1e a4 3e 49 e9 b9 -|
00 00 00 00 00 00 00 00
EncryptedPreMasterSecret::pBlob
0x138: LicenseInfo (2 + 2 + 0x0799 = 0x79d bytes)
01 -1
00 -/ LicenseInfo::wBlobType = BB DATA BLOB
99 -1
07 - / LicenseInfo::wBlobLen = 0x799
                                     30 82 07 95 -\
06 09 2a 86 48 86 f7 0d-01 07 02 a0 82 07 86 30 -I
82 07 82 02 01 01 31 00-30 0b 06 09 2a 86 48 86 -|
f7 0d 01 07 01 a0 82 07-6a 30 82 02 f1 30 82 01 -|
dd a0 03 02 01 02 02 08-01 9e 27 4d 68 ac ed 20 -|
30 09 06 05 2b 0e 03 02-1d 05 00 30 32 31 30 30 -|
13 06 03 55 04 03 1e 0c-00 52 00 4f 00 44 00 45 -|
00 4e 00 54 30 19 06 03-55 04 07 1e 12 00 57 00 -|
4f 00 52 00 4b 00 47 00-52 00 4f 00 55 00 50 30
1e 17 0d 37 30 30 35 33-30 31 30 33 36 31 38 5a -|
17 0d 34 39 30 35 33 30-31 30 33 36 31 38 5a 30 -|
32 31 30 30 13 06 03 55-04 03 1e 0c 00 52 00 4f -|
00 44 00 45 00 4e 00 54-30 19 06 03 55 04 07 1e -|
12 00 57 00 4f 00 52 00-4b 00 47 00 52 00 4f 00 -|
55 00 50 30 82 01 22 30-0d 06 09 2a 86 48 86 f7 -|
0d 01 01 01 05 00 03 82-01 0f 00 30 82 01 0a 02 -I
82 01 01 00 88 ad 7c 8f-8b 82 76 5a bd 8f 6f 62 -|
18 e1 d9 aa 41 fd ed 68-01 c6 34 35 b0 29 04 ca -|
```

4a 4a 1c 7e 80 14 f7 8e-77 b8 25 ff 16 47 6f bd -| e2 34 3d 2e 02 b9 53 e4-33 75 ad 73 28 80 a0 4d -| fc 6c c0 22 53 1b 2c f8-f5 01 60 19 7e 79 19 39 -| 8d b5 ce 39 58 dd 55 24-3b 55 7b 43 c1 7f 14 2f -| b0 64 3a 54 95 2b 88 49-0c 61 2d ac f8 45 f5 da -| 88 18 5f ae 42 f8 75 c7-26 6d b5 bb 39 6f cc 55 -| 1b 32 11 38 8d e4 e9 44-84 11 36 a2 61 76 aa 4c -| b4 e3 55 0f e4 77 8e de-e3 a9 ea b7 41 94 00 58 -| aa c9 34 a2 98 c6 01 1a-76 14 01 a8 dc 30 7c 77 -| 5a 20 71 5a a2 3f af 13-7e e8 fd 84 a2 5b cf 25 -| e9 c7 8f a8 f2 8b 84 c7-04 5e 53 73 4e 0e 89 a3 -| 3c e7 68 5c 24 b7 80 53-3c 54 c8 c1 53 aa 71 71 -| 3d 36 15 d6 6a 9d 7d de-ae f9 e6 af 57 ae b9 01 -96 5d e0 4d cd ed c8 d7-f3 01 03 38 10 be 7c 42 -| 67 01 a7 23 02 03 01 00-01 a3 13 30 11 30 0f 06 -03 55 1d 13 04 08 30 06-01 01 ff 02 01 00 30 09 -06 05 2b 0e 03 02 1d 05-00 03 82 01 01 00 70 db -| 21 2b 84 9a 7a c3 b1 68-fa c0 00 8b 71 ab 43 9f -| b6 7b b7 1f 20 83 ac 0a-b5 0e ad b6 36 ef 65 17 -| 99 86 8a 3d ba 0c 53 2e-a3 75 a0 f3 11 3d e7 65 -| 4b ae 3c 42 70 11 dc ca-83 c0 be 3e 97 71 84 69 -1 d6 a8 27 33 9b 3e 17 3c-a0 4c 64 ca 20 37 a4 11 -| a9 28 8f b7 18 96 69 15-0d 74 04 75 2a 00 c7 a6 -| 6a be ac b3 f2 fb 06 1b-6c 11 bd 96 e2 34 74 5d -| f5 98 8f 3a 8d 69 08 6f-53 12 4e 39 80 90 ce 8b -| 5e 88 23 2d fd 55 fd 58-3d 39 27 b3 7c 57 fe 3b -| ab 62 26 60 e2 d0 c8 f4-02 23 16 c3 52 5d 9f 05 -49 a2 71 2d 6d 5b 90 dd-bf e5 a9 2e f1 85 8a 8a -| b8 a9 6b 13 cc 8d 4c 22-41 ad 32 1e 3b 4b 89 37 -| 66 df 1e a5 4a 03 52 1c-d9 19 79 22 d4 a7 3b 47 -| 93 a9 0c 03 6a d8 5f fc-c0 75 33 e5 26 da f7 4a -| 77 d8 f1 30 80 39 38 1e-86 1d 97 00 9c 0e ba 00 -54 8a c0 12 32 6f 3d c4-15 f9 50 f8 ce 95 30 82 -1 04 71 30 82 03 5d a0 03-02 01 02 02 05 03 00 00 -| 00 0f 30 09 06 05 2b 0e-03 02 1d 05 00 30 32 31 -| 30 30 13 06 03 55 04 03-1e 0c 00 52 00 4f 00 44 -| 00 45 00 4e 00 54 30 19-06 03 55 04 07 1e 12 00 -57 00 4f 00 52 00 4b 00-47 00 52 00 4f 00 55 00 -| 50 30 1e 17 0d 30 37 30-36 32 30 31 34 35 31 33 -35 5a 17 0d 30 37 30 39-31 38 31 34 35 31 33 35 -| 5a 30 7f 31 7d 30 13 06-03 55 04 03 1e 0c 00 52 -| 00 4f 00 44 00 45 00 4e-00 54 30 21 06 03 55 04 -| 07 le la 00 41 00 64 00-6d 00 69 00 6e 00 69 00 -73 00 74 00 72 00 61 00-74 00 6f 00 72 30 43 06 -I 03 55 04 05 1e 3c 00 31-00 42 00 63 00 4b 00 65 -| 00 64 00 79 00 32 00 6b-00 72 00 4f 00 34 00 2f -| 00 4d 00 43 00 44 00 4c-00 49 00 31 00 41 00 48 -| 00 5a 00 63 00 50 00 69-00 61 00 73 00 3d 00 0d -| 00 0a 30 82 01 22 30 0d-06 09 2a 86 48 86 f7 0d -| 01 01 01 05 00 03 82 01-0f 00 30 82 01 0a 02 82 -01 01 00 88 ad 7c 8f 8b-82 76 5a bd 8f 6f 62 18 -| el d9 aa 41 fd ed 68 01-c6 34 35 b0 29 04 ca 4a -| 4a 1c 7e 80 14 f7 8e 77-b8 25 ff 16 47 6f bd e2 -1 34 3d 2e 02 b9 53 e4 33-75 ad 73 28 80 a0 4d fc -| 6c c0 22 53 1b 2c f8 f5-01 60 19 7e 79 19 39 8d -| b5 ce 39 58 dd 55 24 3b-55 7b 43 c1 7f 14 2f b0 -| 64 3a 54 95 2b 88 49 0c-61 2d ac f8 45 f5 da 88 -| 18 5f ae 42 f8 75 c7 26-6d b5 bb 39 6f cc 55 1b -| 32 11 38 8d e4 e9 44 84-11 36 a2 61 76 aa 4c b4 -| e3 55 0f e4 77 8e de e3-a9 ea b7 41 94 00 58 aa -| c9 34 a2 98 c6 01 1a 76-14 01 a8 dc 30 7c 77 5a -| 20 71 5a a2 3f af 13 7e-e8 fd 84 a2 5b cf 25 e9 -| c7 8f a8 f2 8b 84 c7 04-5e 53 73 4e 0e 89 a3 3c -| e7 68 5c 24 b7 80 53 3c-54 c8 c1 53 aa 71 71 3d -| 36 15 d6 6a 9d 7d de ae-f9 e6 af 57 ae b9 01 96 -| 5d e0 4d cd ed c8 d7 f3-01 03 38 10 be 7c 42 67 -| 01 a7 23 02 03 01 00 01-a3 82 01 47 30 82 01 43 -I 30 14 06 09 2b 06 01 04-01 82 37 12 04 01 01 ff -| 04 04 01 00 05 00 30 3c-06 09 2b 06 01 04 01 82 -|

```
37 12 02 01 01 ff 04 2c-4d 00 69 00 63 00 72 00 -|
6f 00 73 00 6f 00 66 00-74 00 20 00 43 00 6f 00 -1
72 00 70 00 6f 00 72 00-61 00 74 00 69 00 6f 00 -|
6e 00 00 00 30 56 06 09-2b 06 01 04 01 82 37 12 -|
05 01 01 ff 04 46 00 30-00 00 01 00 00 00 ff 00 -|
00 00 00 04 00 00 1c 00-08 00 24 00 16 00 3a 00 -|
01 00 41 00 30 00 32 00-00 00 41 00 30 00 32 00 -1
2d 00 36 00 2e 00 30 00-30 00 2d 00 53 00 00 00 -|
06 00 00 00 00 80 64 80-00 00 00 00 30 6e 06 09 -|
2b 06 01 04 01 82 37 12-06 01 01 ff 04 5e 00 30 -|
00 00 00 00 0e 00 3e 00-52 00 4f 00 44 00 45 00 -|
4e 00 54 00 00 00 37 00-38 00 34 00 34 00 30 00 -|
2d 00 30 00 30 00 36 00-2d 00 35 00 38 00 36 00 -|
37 00 30 00 34 00 35 00-2d 00 37 00 30 00 33 00 -1
34 00 37 00 00 00 57 00-4f 00 52 00 4b 00 47 00 -|
52 00 4f 00 55 00 50 00-00 00 00 00 30 25 06 03 -I
55 1d 23 01 01 ff 04 1b-30 19 a1 10 a4 0e 52 00 -|
4f 00 44 00 45 00 4e 00-54 00 00 00 82 05 03 00 -|
00 00 0f 30 09 06 05 2b-0e 03 02 1d 05 00 03 82 -|
01 01 00 13 1b dc 89 d2-fc 54 0c ee 82 45 68 6a -|
72 c3 3e 17 73 96 53 44-39 50 0e 0b 9f 95 d6 2c -1
6b 53 14 9c e5 55 ed 65-df 2a eb 5c 64 85 70 1f -|
bc 96 cf a3 76 b1 72 3b-e1 f6 ad ad ad 2a 14 af -|
ba d0 d6 d5 6d 55 ec 1e-c3 4b ba 06 9c 59 78 93 -|
64 87 4b 03 f9 ee 4c dd-36 5b bd d4 e5 4c 4e da -|
7b c1 ae 23 28 9e 77 6f-0f e6 94 fe 05 22 00 ab -|
63 5b e1 82 45 a6 ec 1f-6f 2c 7b 56 de 78 25 7d -|
10 60 0e 53 42 4b 6c 7a-6b 5d c9 d5 a6 ae c8 c8 -|
52 29 d6 42 56 02 ec f9-23 a8 8c 8d 89 c9 7c 84 -|
07 fc 33 e1 1e ea e2 8f-2b be 8f a9 d3 d1 e1 5e -
0b dc b6 43 6e 33 0a f4-2e 9d 0c c9 58 54 34 aa -|
e1 d2 a2 e4 90 02 23 26-a0 92 26 26 0a 83 b4 4d -|
d9 4b ef eb 9d a9 24 3f-92 8b db 04 7b 9d 64 91 -|
a4 4b d2 6e 51 05 08 c9-91 af 31 26 55 21 b1 ea -|
ce a3 a4 0d 5e 4c 46 db-16 2d 98 dc 60 19 b8 1b -|
b9 cd fb 31 00
0x8d5: EncryptedHWID (2 + 2 + 0x14 = 0x18 bytes)
00 -/ EncryptedHWID::wBlobType
14 -\
00 -/ EncryptedHWID::wBlobLen
b9 30 59 3b 93 61 c9 f6 -\
b6 0b 1f dc 1a 85 67 39 -|
dc 29 65 62
                        -/ EncryptedHWID::pBlob
0x:8ed: MACData (0x10 bytes)
42 a2 13 c7 54 ae b5 d5 -\
24 66 54 f3 1b af 8d fb -/ MACData
```

4.4 Server Platform Challenge (SERVER_PLATFORM_CHALLENGE)

The server sends the **Platform Challenge** (section $\underline{3.2.1.6}$) to the client to authenticate the client. See sections $\underline{2.2.2.4}$ and $\underline{3.2.5.4}$.

```
00000000: 02 03 26 00 ff ff ff ff-50 f7 0a 00 46 37 85 54 ......P...F7.T 00000010: 8e c5 91 34 97 5d 78 94-ad 3b 81 da 88 18 56 0f ...4.]x..;....V. 00000020: 3a d1 f1 03 ef 35 :....5

0x00: LICENSE PREAMBLE (4 bytes)
02 -> LICENSE_PREAMBLE::bMsgType = SERVER_PLATFORM_CHALLENGE
03 -> LICENSE PREAMBLE::bVersion = 3
```

```
00 -/ LICENSE PREAMBLE::wMsqSize
0x04: ConnectFlags (4 bytes)
ff -\
ff -|
ff -|
ff -/ dwConnectFlags (ignored)
0x08: EncryptedPlatformChallenge (2 + 2 + 0xa = 0xe bytes)
f7 -/ EncryptedPlatformChallenge::wBlobType (ignored)
0a -\
00 -/ EncryptedPlatformChallenge::wBlobLen
46 37 85 54 8e c5 91 34 -\
                 97 5d -/ EncryptedPlatformChallenge::pBlob
The corresponding decrypted blob for the above is
0x00000000 54 00 45 00 53 00 54 00 00 00 T.E.S.T...
0x16: MACData
78 94 ad 3b 81 da 88 18 -\
56 Of 3a d1 f1 03 ef 35 -/ MACData
```

4.5 Client Platform Challenge Response (CLIENT_PLATFORM_CHALLENGE_RESPONSE)

The client sends the **Client Platform Challenge Response** message in response to a **Server Platform Challenge** (section 2.2.2.4) message. The message type in the **Licensing Preamble** (section 2.2.1.2) is PLATFORM_CHALLENGE_RESPONSE (0x15).

See sections 2.2.2.5 and 3.3.5.5 for more information.

```
00000000: 15 83 42 00 01 00 12 00-fa b4 e8 24 cf 56 b2 4e ..B......$.V.N
00000010: 80 02 bd b6 61 fc df e9-6c 44 01 00 14 00 f8 b5 ....a...lD......
00000020: e8 25 3d 0f 3f 70 1d da-60 19 16 fe 73 1a 45 7e .%=.?p..`...s.E~
00000030: 02 71 38 23 62 5d 10 8b-93 c3 f1 e4 67 1f 4a b6 .q8#b].....g.J.
00000040: 00 0a
0x00: LICENSE PREAMBLE (4 bytes)
15 -> LICENSE PREAMBLE::bMsgType = CLIENT PLATFORM CHALLENGE REPSONSE
83 -> LICENSE PREAMBLE::bVersion = 0x80 | 0x3
42 -\
00 -/ LICENSE PREAMBLE::wMsgSize = 0x42 bytes
{\tt 0x04: EncryptedPlatformChallengeResponse}
  (2 + 2 + 0x12 = 0x16 \text{ bytes})
01 -\
00 -/ EncryptedPlatformChallengeResponse::wBlobType (ignored)
12 -\
00 -/ EncryptedPlatformChallengeResponse::wBlobLen = 0x12
fa b4 e8 24 cf 56 b2 4e -\
80 02 bd b6 61 fc df e9 -|
6c 44
EncryptedPlatformChallengeResponse::pBlob
The corresponding decrypted platform challenge response data
for the above is
01 -/ PLATFORM CHALLENGE RESPONSE DATA::wVersion
```

```
01 -/ PLATFORM CHALLENGE RESPONSE DATA::wClientType
00 -/ PLATFORM CHALLENGE RESPONSE DATA::wLicenseDetailLevel
00 -/ PLATFORM CHALLENGE RESPONSE DATA::cbChallenge
54 -\
00 -1
45 - |
00 -1
53 -1
00 -1
54 -1
00 -|
00 -1
00 -/ PLATFORM CHALLENGE RESPONSE DATA::pbChallenge
0x1a: EncryptedHWID (2 + 2 + 0x14 = 0x18 bytes)
01 -\
00 -/ EncryptedHWID::wBlobType (ignored)
14 -\
00 -/ EncryptedHWID::wBlobLen
f8 b5 e8 25 3d Of 3f 70 -\
1d da-60 19 16 fe 73 1a -|
45 7e 02 71
                        -/ EncryptedHWID::pBlob
The corresponding decrypted HWID for the above is
02 -\
00 -|
00 -1
00 -/ CLIENT HARDWARE ID::PlatformId
f1 -\
59 -1
87 -|
3e -/ CLIENT HARDWARE ID::Data1
c9 -\
d8 -1
98 -1
af -/ CLIENT HARDWARE ID::Data2
24 -\
02 -1
f3 -/ CLIENT HARDWARE ID::Data3
29 -\
3a -|
f0 -|
26 -/ CLIENT HARDWARE ID::Data4
0x32: MACData (0x10 bytes)
38 23 62 5d 10 8b-93 c3 -\
f1 e4 67 1f 4a b6 00 0a -/ MACData
```

4.6 Server New License (SERVER_NEW_LICENSE)

The server sends the license to the client in the **Server New License** message. See sections $\underline{2.2.2.7}$ and $\underline{3.2.5.7}$ for more information.

00000000:	U3	UЗ	0.7	0.0	nα	$\cap \cap$	o f	07-db	~ 3	13	3 0	70	~ 3	~d	90	0y
00000010:	48	£4	8 f	06	3.7	1b	45	dd-60	a9	2e	29	26	bf	cl	96	H7.E.`)&
00000020:	5e	07	9.3	9d	£2.	2d	3e	a3-3a	ff	d5	6d	f5	8.5	30	2.8	^>.:m0(
00000030:								33-94			2 /	23	aυ	ЮΤ	38	.F.V. A3'#.a8
00000040:	60	db	86	d6	ce	2c	cd	40-39	55	23	39	12	b9	fd	c2	`,.@9U#9
00000050:	8d							61-d7								.X.73B\af.E.
00000060:	41	39	ea	85	2a	6e	7a	b3-e7	27	75	fc	4 d	c0	fb	0d	A9*nz'u.M
00000070:	e8	67	90	hЗ	32	4 0	fΛ	15-8a	15	80	20	99	Λf	10	hd	.g:@,
00000080:	d2	8 0	66	51	9e	6a	е6	2c-f7	1 f	d0	c0	8e	89	76	64	fQ.j.,vd
00000090:	18	5.8	a 1	94	bd	ce	h1	2d-96	ab	53	cf	f8	hf	d0	c9	.xs
000000A0:	CU	2e	e6	a 4	dU	50	3 I	4a-4e	a8	4 /	4b	аİ	8d	21	78	P1JN.GK!x
000000B0:	bf	09	ac	7 f	2d	2d	88	f6-d8	c7	4.5	3.3	9f	ac	69	f5	E3i.
000000C0:	88	9a	5 C	бе	C9	αU	са	8c-bc	a9	aь	0 /	36	ea	40	95	\n6.@.
000000D0:	8a	c1	3f	04	41	b3	С9	b3-18	9d	33	1b	04	55	cd	41	?.A3U.A
000000E0:								6e-b7								5nH.O(
000000F0:	С6	35	£3	9b	a2	d5	£7	58-03	4d	9a	16	34	fb	96	0с	.5X.M4
00000100:	d5	3 -	20	52	1 h	2 f	1 +	1f-31	h2	40	1 /	37	73	Λf	~3	.:.R./1;s
00000110:	04	e0	a5	52	89	68	ba	0f-99	9d	24	a 6	£3	e8	9 £	CC	R.h\$
00000120:	d2	44	9 F	0.8	8h	Λa	24	89-f7	c9	0.7	Λd	25	0.7	ed	30	.D\$%>
00000130:	75	$Z \perp$	19	65	ac	98	41	9d-05	12	Tβ	88	86	Τр	43	49	u!.eACI
00000140:	29	f2	e8	26	16	1e	ce	cd-32	e7	36	74	51	27	fd	a2)&2.6tQ'
00000150:	a9							02-06								.bW`(.dk%
00000160:	98	07	е1	40	ad	19	b7	68-66	12	4e	80	bc	83	d2	de	@hf.N
00000170:	cb	7e	c2	32	c7	h8	4 d	d6-7d	44	63	a 9	95	45	c1	90	.~.2M.}.cE
00000180:	c7	99	3с	0a	24	62	ÍC	24-15	db	d3	d2	9b	5d	./8	04	<.\$b.\$]x.
00000190:	78	d5	40	1 d	e 3	40	e8	30-9f	56	91	71	0.0	86	2 c	6а	x.@N.O.V.q,j
000001A0:	DΖ	/8	ec	70	a9	/ T	еь	aa-b1	aa	Tβ	Ι9	аь	84) a	4.0	.x.p.qK
000001B0:	5f	32	b8	е3	c7	84	ef	37-fe	ae	99	b5	£2	34	84	82	274
000001C0:								89-8b								_ J ^%q}o .z
000001D0:	96	56	34	30	ce	09	d5	00-a8	ac	15	72	21	С4	71	57	.V40r!.qW
000001E0:	۵5	2 a	34	df	82	h8	hß	63-dc	Зf	20	99	60	c3	۵3	fd	.*=c.?l
000001F0:	92	eu	26	еı	2/	80	04	71-b0	aв	αı	αī	/e	24	23	b 9	&.'q~\$#.
00000200:	82	01	77	dc	8f	77	54	e6-93	с8	6c	66	87	b7	aa	9d	wwTlf
	66															
00000210:	66							cf-db								f/^t
00000220:	00	f1	76	f7	45	2c	f8	a9-3b	d9	81	59	52	0f	fe	d9	v.E,;YR
00000230:	28	02	59	82	39	51	60	b9-ac	f 9	62	48	73	6£	20	44	(.Y.9QnjHso,M
00000240:	/b	CU	bİ	be	69	ae	Uе	dc-8b	e6	a8	9±	66	30	Iе	45	{if0.E
00000250:	1d	8.5	2.3	eb	a 8	02	b5	ba-c2	fd	a1	ff	c5	5.5	2b	a0	#
00000260:	f7	ac	24	ee	8 T	a8	ет	b8-02	06	85	ье	41	эa	80	U /	.[\$nAZ
00000270:	ff	65	db	b4	59	89	71	95-d5	0c	2a	67	4 d	57	fd	4a	.eY.q*gMW.J
00000280:	e8							c6-d5								BLS.2h
00000290:	d7	5d	8 f	ec	24	29	00	4f-46	8d	d2	99	b2	£4	06	99	.]\$).OF
000002A0:	9a	a 6	31	f1	49	16	fe	94-bb	8e	15	5.5	0.6	93	16	а3	1.IU
000002B0:																
								af-93								axfZu^
000002C0:	4c	ba	a 9	50	ac	1b	d6	92-2a	ac	0a	21	12	9e	4a	f0	LP*!J.
000002D0:	40	39	4b	۵5	78	88	86	17-b9	eh	aՈ	33	8 a	92	fc	70	@9K.x3
000002E0:	91	16	d/	52	ec	05	/e	4e-90	78	bе	45	4 a	dd	Í6	±4	R~N.x^EJ
000002F0:	2e	68	f7	8e	fc	60	95	aa-6a	07	9c	ea	ce	c1	d9	55	.h`jU
00000300:	3 -							87-18								:xT.* GJ.14
00000310:	84	36	еf	0d	2e	9d	42	d9-ff	56	e2	87	0b	2f	4d	0e	.6BV/M.
00000320:	$C \cap$	60	35	0.6	9 F	61	90	4e-7b	49	41	h4	fa	0.4	10	hd	.`5a.N{IA
00000330:	I6	ad	02	a9	/ C	рa	06	68-bb	a/	аб	8 a	ab	ab	pΤ	2a	h
00000340:	69	2a	f1	С6	7b	1b	71	b9-d0	91	82	6f	a8	Зс	e1	a3	i*{.qo.<
								c5-95								#=NHt5.
00000350:																
00000360:	02	80	2с	29	5f	£9	17	86-69	8f	13	d1	са	83	fс	ac	,)i
00000370:	55	сf	5.a	96	45	аf	۵5	bb-e7	h5	53	40	f∩	63	fc	92	U.Z. <u>E</u> SN.c
00000380:	49	Í6	45	93	С6	bf	a5	b3-25	e2	93	0d	a 6	a'/	⊥4	80	I.E%
00000390:	6d	b2	0.3	1.5	6а	ad	e8	25-f1	80	d4	ba	9а	88	bc	56	mj%V
																_
000003A0:								4d-35								.zM\$?M5Y[2
000003B0:	1d	f5	a5	53	b5	fb	ba	83-29	0b	9с	62	9b	56	4b	44	S)b.VKD
000003C0:								d9-04								Y .t(.g69
000003D0:	55	5f	/ C	ed	84	c1	16	d3-9e	9c	90	9d	55	рc	Зe	6 d	U_
000003E0:	63	12	f2	2.6	61	d7	CC	4f-01	a2	0h	d9	66	60	ad	ed	c&mOf`
000003F0:								c8-e8								(_J3#f.
00000400:	28	90	81	27	a9	44	93	68-57	44	5e	ba	90	12	03	15	('.D.hWD^
00000410:								88-30								/i.U.2c.0.P
00000420:	Iе	a2	e /	32	9d	Зd	/d	e2-31	93	a6	4 e	аU	dС	TT	44	$2.=$ } .1ND
00000430:	d2	93	32	94	1e	С6	4c	28-de	a2	a6	0d	14	02	74	8a	2L(t.
00000440:	ö 4	∠a	UΔ	0/	33	тα	ОО	3e-e9	рδ	4 a	DΖ	92	та	09	48	.*.g5.f>.hJiH

```
00000450: bd 23 fd 70 5a fd fe 74-39 c5 fa 11 ac 04 c9 94 .#.pz..t9.....
00000460: fc 12 2e 06 04 61 8e 32-f4 f8 3b d1 d8 09 b3 e4 00000470: ac 0f 3e 92 f7 75 0b 32-9b d4 8a 13 99 6a 26 77
                                                                     ....a.2..;....
                                                                      ..>..u.2....j&w
00000480: 9f 34 08 a8 eb b3 3e 2a-5b 4a 44 f9 21 89 2a 09
                                                                     .4....>*[JD.!.*.
                                                                      ...*..'0%9...G.`
00000490: 9c c7 0d 2a d8 d6 27 30-25 39 84 14 11 47 ff 60
000004A0: e4 7c c3 41 fd d5 34 dd-b1 1c f2 eb b1 67 04 fa
                                                                      .|.A..4....g..
000004B0: fd 65 5b 20 6e 28 75 a9-74 8e c4 2f f7 b2 f5 9f
                                                                     .e[ n(u.t../....
000004C0: 13 44 ff b0 f0 68 b0 69-15 a6 16 a8 ac c3 06 14
                                                                     .D...h.i.....
000004D0: 8e 51 99 a9 4c 19 d1 25-34 b5 79 c2 a7 bf d8 3d 000004E0: 2d 4c 33 ac 1b 6c af 10-42 41 14 02 e6 87 2b e9
                                                                      .Q..L..%4.y...=
                                                                      -L3..l..BA...+.
000004F0: ec c6 b1 eb 97 d4 35 49-97 fc e2 73 f9 98 46 7c
                                                                     .....5I...s..F|
00000500: f6 17 2d b5 43 07 8b 19-95 9b 65 d3 05 7e b0 68
                                                                      ..-.C....e..~.h
00000510: 0d 6e 4b 60 ad 5c 47 6e-37 fd 3f 60 43 da b2 34
                                                                      .nK`.\Gn7.?`C..4
00000520: 00 d6 9c 6d 46 7f 41 e2-c1 1a d0 53 72 81 0b 3f
                                                                      ...mF.A....Sr..?
                                                                      w......
00000530: 77 el bc cc 09 0f al ld-73 8c ac a4 48 90 80 a8
00000540: 50 63 6a b7 76 91 91 2f-la 5e 83 80 e6 ae 66 77 Pcj.v../.^....fw
00000550: 44 e0 0f 14 70 c9 d3 91-e8 d2 c4 89 a8 45 c0 3d D...p......E.=
00000560: bd 09 58 e0 cd e6 5c 9e-02 94 d2 be df 94 35 f7
                                                                     ..x...\.....5.
00000570: 67 96 75 88 08 59 d9 19-21 da d0 a2 74 2d 22 87 g.u..Y..!...t-".
00000580: 37 27 6e 58 dc 8e 9f 50-d5 62 f3 4a a4 b2 fb f9 7'nx...P.b.J....
00000590: 3e d5 da 57 56 5c cb 0e-d1 62 4f ea 42 4a 62 b2 >..WV\...bO.BJb.
000005A0: 4e 1c d1 cc 24 1b dc ac-d4 b0 2f 5d 62 87 56 3d N...$..../]b.V=
000005B0: e4 03 ae 4a 7e 7d 05 fe-85 33 da 5f 36 cb 56 al 000005C0: 14 80 63 26 75 3a c2 1f-9c dd 8a d6 f8 a9 la f6
                                                                     ...J~}...3. 6.V.
                                                                      ..c&u:.....
000005D0: c2 57 e0 7b 80 55 d5 12-f1 b4 e7 1d 95 68 02 f1
                                                                     .W.{.U....h..
000005E0: 19 ff 74 72 32 db 6c c9-a0 2d 69 fc c0 e8 27 11
                                                                     ..tr2.1..-i...'.
000005F0: b8 e0 f5 83 60 3f b4 94-e5 9d b8 fd c5 9e 50 76
                                                                      ....`?......Pv
                                                                     ..3k.~.,;'....E
00000600: 92 c7 33 6b e0 7e 9b 2c-3b 27 d8 a6 da b3 a1 45
00000610: ef 3b 3d 76 1d 5a 43 a4-e1 82 5f 7d 0b 10 28 1c
                                                                     .;=v.ZC...}..(.
00000620: b9 8f 2b cd f9 c5 93 e3-65 a5 5b 50 a9 07 16 b3 00000630: 45 4a 69 fc 58 12 7b 58-34 9f 6f 5e 7a c2 9f 7b
                                                                      ..+...e.[P....
                                                                      EJi.X.{X4.0^z..{
00000640: cf 62 62 6c 1e 7d d9 72-ca 98 1e d4 e5 c7 98 27
                                                                     .bbl.}.r....'
00000650: e3 9f c5 3c 90 9e 26 ed-7e 38 2b cf c4 99 f5 b4
                                                                      ...<..&.~8+....
00000660: 78 48 7c 08 99 bc 80 47-b1 c5 58 60 17 84 11 f8 00000670: 70 al 26 95 94 77 f4 8d-ld 47 96 df 95 ld 97 37
                                                                      xH|....G..X`....
                                                                      p.&..w...G.....7
00000680: 5a 12 fb 3f cd a0 fb ac-61 62 1f ee dc 6d 2c 45
                                                                      Z..?...ab...m, E
00000690: 5f c0 80 7d 99 62 38 f7-6d 88 d5 e2 24 9d ed a7 000006A0: d5 e7 1c 8a 75 9b 67 0c-64 fe e7 e2 e9 a0 94 60
                                                                     _..}.b8.m...$...
                                                                      ____...u.g.d.....
000006B0: 26 46 d8 c9 59 43 17 85-07 32 8b 0c 5a 1e 35 48
                                                                     &F..YC...2..Z.5H
000006CO: 46 e5 44 5b c7 07 cd 30-97 80 fa f9 eb 0d af af F.D[...0......
000006D0: 3e be 27 43 8e 4a f2 60-eb 2b 4d 11 9a e1 d7 59 >.'C.J.`.+M....Y 000006E0: 78 29 26 3e 9b da 61 15-ab e8 6f 81 73 ac 9f 43 x)&>..a...o.s..C
000006F0: c6 b1 81 73 36 4a 1e 57-2b d9 7a 06 4f b6 37 11 ...s6J.W+.z.O.7.
00000700: e6 c6 90 41 a4 a6 b7 3a-7e c9 ce 50 2f 8c 07 db 00000710: 9a 19 38 51 35 50 f3 09-33 20 62 36 a8 6c 8e f2
                                                                     ...A...:~..P/...
                                                                      ..8Q5P..3 b6.1..
00000720: 56 8c 82 d3 fa 16 b5 3d-74 28 dc 2a e5 ae ab 77
                                                                      V.....=t(.*...w
00000730: e5 22 3d 69 92 b8 56 c5-06 6b 8b da 46 18 af 93
                                                                     ."=i..V..k..F...
00000740: a2 0c b5 d3 d6 94 4a 29-fd 4b 48 48 a1 73 bc de \,
                                                                     ......J).KHH.s..
00000750: cb 3a 35 27 d5 40 3a 1d-5b e3 62 a5 22 a2 7b b5
                                                                      .:5'.@:.[.b.".{.
00000760: 6a f0 5e 0a 96 5c e8 3b-41 58 a1 d5 11 2c 36 9e
                                                                      j.^..\.;AX...,6.
                                                                     00000770: e5 2b c9 fb 1b 37 d0 8e-cf c2 01 6f b6 21 96 9c
00000780: 14 2f 76 19 b0 6a 9d ef-69 fd d0 03 d9 eb b7 86
                                                                      ./v..j..i.....
00000790: 76 20 d3 20 6a d8 cb c8-9e b7 82 28 b2 25 a7 a2
                                                                      v . j.....(.%..
000007A0: 6b fd 60 b0 11 09 53 5f-79 6b 72 d7 1b 21 73 f7
                                                                     k.
                                                                         ...S ykr..!s.
000007B0: 21 d5 5c c4 e5 52 82 73-1f 9c 95 e1 21 bf 12 67 000007C0: c9 41 e5 64 c4 d4 f9 a2-9b 29 df e5 a4 f3 b4 69
                                                                      !.\..R.s....!..g
                                                                      .A.d....)....i
000007D0: 6d 2c b0 42 e3 e6 25 a7-8f f5 12 99 8c bf bb d8
                                                                      m,.B..%.....
000007E0: a8 23 db 8e ec 37 b0 8e-4f ed 67 aa 3e f6 24 56
                                                                      .#...7..O.a.>.$V
                                                                      ......J
000007F0: 96 e3 d4 bc 25 0b 56 ed-e8 bf d6 13 a0 f5 80 4a
00000800: e5 ff 85 16 fa cb 1f
0x00: LICENSE PREAMBLE
                              (4 bytes)
   03 -> LICENSE PREAMBLE::bMsgType = SERVER NEW LICENSE
03 -> LICENSE PREAMBLE::bVersion = 3
07 -\
```

```
08 -/ LICENSE PREAMBLE::wMsgSize = 0x807 bytes
0x04: EncryptedLicenseInfo (2 + 2 + 0x7ef = 0x7f3 bytes)
00 -/ EncryptedLicenseInfo::wBlobType = BB ENCRYPTED DATA BLOB
07 -/ EncryptedLicenseInfo::wBlobLen = 0x7ef bytes
                        db a3 13 30 79 a3 cd 9e -\
48 f4 8f 06 37 1b 45 dd-60 a9 2e 29 26 bf c1 96 -|
5e 07 93 9d f2 2d 3e a3-3a ff d5 6d f5 85 30 28 -1
e1 46 fd 56 d1 20 41 33-94 88 0c 27 23 a0 61 38 -|
60 db 86 d6 ce 2c cd 40-39 55 23 39 12 b9 fd c2 -|
8d 58 0a 37 33 42 5c 61-d7 c8 a0 11 66 e2 45 ba -|
41 39 ea 85 2a 6e 7a b3-e7 27 75 fc 4d c0 fb 0d -|
e8 67 90 b3 3a 40 f0 15-8a 15 8e 2c 99 0f 1c bd -|
d2 08 66 51 9e 6a e6 2c-f7 1f d0 c0 8e 89 76 64 -|
18 58 al 94 bd ce bl 2d-96 ab 53 cf f8 bf d0 c9 -|
c0 2e e6 a4 0b 50 31 4a-4e d8 47 4b af b8 21 78 -|
bf 09 ac 7f 2d 2d 88 f6-d8 c7 45 33 9f ac 69 f5 -|
88 9d 5c 6e c9 d0 ca 8c-bc a9 d6 07 36 ed 40 95 -1
8a c1 3f 04 41 b3 c9 b3-18 9d 33 1b 04 55 cd 41 -|
df 19 e1 cd a0 a4 35 6e-b7 0a f3 ec 48 10 4f 28 -|
c6 35 f3 9b a2 d5 f7 58-03 4d 9a 16 34 fb 96 0c -|
d5 3a ae 52 1b 2f 1f 1f-31 b2 d9 14 3b 73 0f e3 -|
04 e0 a5 52 89 68 ba 0f-99 9d 24 a6 f3 e8 9f cc -|
d2 44 9f 08 8b 0a 24 89-f7 c9 07 0d 25 07 ed 3e -|
75 21 19 65 dc 98 41 9d-05 12 18 88 86 16 43 49 -|
29 f2 e8 26 16 1e ce cd-32 e7 36 74 51 27 fd a2 -|
a9 62 57 60 28 e4 64 02-06 6b ff 01 ab c5 1c 25 -1
98 07 e1 40 ad 19 b7 68-66 12 4e 80 bc 83 d2 de -|
cb 7e c2 32 c7 b8 4d d6-7d dd 63 a9 95 45 c1 90 -|
c7 99 3c 0a 24 62 fc 24-15 db d3 d2 9b 5d 78 04 -|
78 d5 40 1d e3 4e e8 30-9f 56 91 71 00 86 2c 6a -|
b2 78 ec 70 d9 71 e6 aa-b1 ad 18 f9 a6 84 b7 4b -|
5f 32 b8 e3 c7 84 ef 37-fe ae 99 b5 f2 34 84 82 -|
4a b3 d0 7c 5e 25 71 89-8b 7d 6f 5f 96 7a 1d 84 -|
96 56 34 30 ce 09 d5 00-a8 ac 15 72 21 c4 71 57 -|
e5 2a 3d df 82 b8 b8 63-dc 3f 2e 99 6c c3 e3 fd -|
92 e0 26 e1 27 b8 04 71-b0 a8 d1 df 7e 24 23 b9 -|
82 01 77 dc 8f 77 54 e6-93 c8 6c 66 87 b7 aa 9d -|
66 d4 c6 2f 5e 9e e1 cf-db b2 74 0e ea a5 e0 f7 -|
00 f1 76 f7 45 2c f8 a9-3b d9 81 59 52 0f fe d9 -|
28 02 59 82 39 51 6e b9-ac f9 6a 48 73 6f 2c 4d -1
7b c0 bf be 69 ae 0e dc-8b e6 d8 9f 66 30 1e 45 -|
1d 85 23 eb a8 02 b5 ba-c2 fd a1 ff c5 55 2b a0 -|
f7 5b 24 ee 81 d8 e1 b8-02 06 85 6e 41 5a b8 07 -|
ff 65 db b4 59 89 71 95-d5 0c 2a 67 4d 57 fd 4a -|
e8 07 02 42 20 d9 f1 c6-d5 4c 53 b0 32 68 c0 dc -|
d7 5d 8f ec 24 29 00 4f-46 8d d2 99 b2 f4 06 99 -|
9a a6 31 f1 49 16 fe 94-bb 8e 15 55 06 93 16 a3 -|
2d 10 b7 b1 cf 61 78 af-93 66 5a 75 5e 97 c0 97 -|
4c ba a9 50 ac 1b d6 92-2a ac 0a 21 12 9e 4a f0 -|
40 39 4b e5 78 88 86 17-b9 eb a0 33 8a 9a fc 7c -|
91 16 d7 52 ec 05 7e 4e-90 78 5e 45 4a dd f6 f4 -|
2e 68 f7 8e fc 60 95 aa-6a 07 9c ea ce c1 d9 55 -|
3a 78 54 9a 2a 5f 47 87-18 4a 8c 6c 34 f5 b8 e2 -|
84 36 ef 0d 2e 9d 42 d9-ff 56 e2 87 0b 2f 4d 0e -|
c0 60 35 06 9f 61 9e 4e-7b 49 41 b4 fa 04 10 bd -|
f6 ad 02 d9 7c ba 06 68-bb a7 a6 8a ab ab b1 2d -|
69 2a f1 c6 7b 1b 71 b9-d0 91 82 6f a8 3c e1 a3 -|
23 3d 4e 48 74 e5 c9 c5-95 31 ad e7 a9 db 35 cd -|
02 08 2c 29 5f f9 17 86-69 8f 13 d1 ca 83 fc ac -|
55 cf 5a e6 45 af e5 bb-e7 b5 53 4e f0 63 fc 9a -|
49 f6 45 93 c6 bf d5 b3-25 e2 93 b0 a6 a7 14 80 -|
6d b2 03 15 6a ad e8 25-f1 80 d4 ba 9a 88 bc 56 -
14 7a 4d ad c3 24 3f 4d-35 8b f6 59 5b fd c9 32 -1
1d f5 a5 53 b5 fb ba 83-29 0b 9c 62 9b 56 4b 44 -|
bc cc 19 59 7c 0b 74 d9-04 28 b3 67 ab 82 36 39 -|
```

```
55 5f 7c ed 84 c1 16 d3-9e 9c 90 9d 55 bc 3e b9 -|
63 12 f2 26 6d d7 cc 4f-01 a2 0b d9 66 60 ad ed -|
2e bd be 28 5f 4a 33 c8-e8 d4 a6 23 8a fd 66 f5 -|
28 90 81 27 a9 44 93 68-57 44 5e ba 90 12 03 15 -
2f 69 80 55 e8 32 63 88-30 85 50 9b b6 bc bb c6 -
fe a2 e7 32 9d 3d 7d e2-31 93 a6 4e a0 dc 11 44 -|
d2 93 32 94 1e c6 4c 28-de a2 a6 0d 14 02 74 8a -|
84 2a 03 67 35 1d 66 3e-e9 68 4a b2 92 1a 69 48 -
bd 23 fd 70 5a fd fe 74-39 c5 fa 11 ac 04 c9 94 -|
fc 12 2e 06 04 61 8e 32-f4 f8 3b d1 d8 09 b3 e4 -
ac Of 3e 92 f7 75 0b 32-9b d4 8a 13 99 6a 26 77 -|
9f 34 08 a8 eb b3 3e 2a-5b 4a 44 f9 21 89 2a 09 -|
9c c7 0d 2a d8 d6 27 30-25 39 84 14 11 47 ff 60 -|
e4 7c c3 41 fd d5 34 dd-b1 1c f2 eb b1 67 04 fa -|
fd 65 5b 20 6e 28 75 a9-74 8e c4 2f f7 b2 f5 9f -|
13 44 ff b0 f0 68 b0 69-15 a6 16 a8 ac c3 06 14 -|
8e 51 99 a9 4c 19 d1 25-34 b5 79 c2 a7 bf d8 3d -|
2d 4c 33 ac 1b 6c af 10-42 41 14 02 e6 87 2b e9 -|
ec c6 b1 eb 97 d4 35 49-97 fc e2 73 f9 98 46 7c -|
f6 17 2d b5 43 07 8b 19-95 9b 65 d3 05 7e b0 68 -|
0d 6e 4b 60 ad 5c 47 6e-37 fd 3f 60 43 da b2 34 -
00 d6 9c 6d 46 7f 41 e2-c1 1a d0 53 72 81 0b 3f -|
77 el bc cc 09 0f al 1d-73 8c ac a4 48 90 80 a8 -|
50 63 6a b7 76 91 91 2f-1a 5e 83 80 e6 ae 66 77 -|
44 e0 0f 14 70 c9 d3 91-e8 d2 c4 89 a8 45 c0 3d -|
bd 09 58 e0 cd e6 5c 9e-02 94 d2 be df 94 35 f7 -|
67 96 75 88 08 59 d9 19-21 da d0 a2 74 2d 22 87 -|
37 27 6e 58 dc 8e 9f 50-d5 62 f3 4a a4 b2 fb f9 -|
3e d5 da 57 56 5c cb 0e-d1 62 4f ea 42 4a 62 b2 -
4e 1c d1 cc 24 1b dc ac-d4 b0 2f 5d 62 87 56 3d -|
e4 03 ae 4a 7e 7d 05 fe-85 33 da 5f 36 cb 56 a1 -
14 80 63 26 75 3a c2 1f-9c dd 8a d6 f8 a9 1a f6 -
c2 57 e0 7b 80 55 d5 12-f1 b4 e7 1d 95 68 02 f1 -|
19 ff 74 72 32 db 6c c9-a0 2d 69 fc c0 e8 27 11 -|
b8 e0 f5 83 60 3f b4 94-e5 9d b8 fd c5 9e 50 76 -|
92 c7 33 6b e0 7e 9b 2c-3b 27 d8 a6 da b3 a1 45 -|
ef 3b 3d 76 1d 5a 43 a4-e1 82 5f 7d 0b 10 28 1c -
b9 8f 2b cd f9 c5 93 e3-65 a5 5b 50 a9 07 16 b3 -|
45 4a 69 fc 58 12 7b 58-34 9f 6f 5e 7a c2 9f 7b -|
cf 62 62 6c 1e 7d d9 72-ca 98 1e d4 e5 c7 98 27 -|
e3 9f c5 3c 90 9e 26 ed-7e 38 2b cf c4 99 f5 b4 -|
78 48 7c 08 99 bc 80 47-b1 c5 58 60 17 84 11 f8 -|
70 al 26 95 94 77 f4 8d-1d 47 96 df 95 1d 97 37 -|
5a 12 fb 3f cd a0 fb ac-61 62 1f ee dc 6d 2c 45 -|
5f c0 80 7d 99 62 38 f7-6d 88 d5 e2 24 9d ed a7 -|
d5 e7 1c 8a 75 9b 67 0c-64 fe e7 e2 e9 a0 94 60 -|
26 46 d8 c9 59 43 17 85-07 32 8b 0c 5a 1e 35 48 -|
46 e5 44 5b c7 07 cd 30-97 80 fa f9 eb 0d af af -|
3e be 27 43 8e 4a f2 60-eb 2b 4d 11 9a e1 d7 59 -|
78 29 26 3e 9b da 61 15-ab e8 6f 81 73 ac 9f 43 -|
c6 b1 81 73 36 4a 1e 57-2b d9 7a 06 4f b6 37 11 -|
e6 c6 90 41 a4 a6 b7 3a-7e c9 ce 50 2f 8c 07 db -|
9a 19 38 51 35 50 f3 09-33 20 62 36 a8 6c 8e f2 -|
56 8c 82 d3 fa 16 b5 3d-74 28 dc 2a e5 ae ab 77 -|
e5 22 3d 69 92 b8 56 c5-06 6b 8b da 46 18 af 93 -|
a2 0c b5 d3 d6 94 4a 29-fd 4b 48 48 a1 73 bc de -|
cb 3a 35 27 d5 40 3a 1d-5b e3 62 a5 22 a2 7b b5 -|
6a f0 5e 0a 96 5c e8 3b-41 58 a1 d5 11 2c 36 9e -|
e5 2b c9 fb 1b 37 d0 8e-cf c2 01 6f b6 21 96 9c -
14 2f 76 19 b0 6a 9d ef-69 fd d0 03 d9 eb b7 86 -|
76 20 d3 20 6a d8 cb c8-9e b7 82 28 b2 25 a7 a2 -|
6b fd 60 b0 11 09 53 5f-79 6b 72 d7 1b 21 73 f7 -|
21 d5 5c c4 e5 52 82 73-1f 9c 95 e1 21 bf 12 67 -|
c9 41 e5 64 c4 d4 f9 a2-9b 29 df e5 a4 f3 b4 69 -|
6d 2c b0 42 e3 e6 25 a7-8f f5 12 99 8c bf bb d8 -|
a8 23 db 8e ec 37 b0 8e-4f ed 67 aa 3e f6 24 56 -|
96 e3 d4 bc 25 0b 56
EncryptedLicenseInfo::pBlob
```

```
The decrypted LicenseInfo for the above data is
00 - 1
06 -1
00 -/ LicenseInfo::dwVersion = 0x060000
0e -\
00 -1
00 - |
00 -/ LicenseInfo::cbScope
6d 69 63 72 6f 73 6f 66 -\
74 2e 63 6f 6d 00 -/ LicenseInfo::pbScope
2c -\
00 -1
00 -1
00 -/ LicenseInfo::cbCompanyName
4d 00 69 00 63 00 72 00 -\
6f 00 73 00 6f 00 66 00 -I
74 00 20 00 43 00 6f 00 -I
72 00 70 00 6f 00 72 00 -I
61 00 74 00 69 00 6f 00 -|
6e 00 00 00
                        -/ LicenseInfo::pbCompanyName
08 -\
00 -1
00 - |
00 -/ LicenseInfo::cbProductId
41 00 30 00 32 00 00 00 ->LicenseInfo::pbProductId
99 -\
07 -1
00 -1
00 -/ LicenseInfo::cbLicenseInfo
                  30 82 07 95 06 09 2a 86 48 86 -\
f7 0d 01 07 02 a0 82 07-86 30 82 07 82 02 01 01 -|
31 00 30 0b 06 09 2a 86-48 86 f7 0d 01 07 01 a0 -|
82 07 6a 30 82 02 fl 30-82 01 dd a0 03 02 01 02 -
02 08 01 9e 27 4d 68 ac-ed 20 30 09 06 05 2b 0e -|
03 02 1d 05 00 30 32 31-30 30 13 06 03 55 04 03 -|
1e 0c 00 52 00 4f 00 44-00 45 00 4e 00 54 30 19 -|
06 03 55 04 07 1e 12 00-57 00 4f 00 52 00 4b 00 -|
47 00 52 00 4f 00 55 00-50 30 1e 17 0d 37 30 30 -|
35 33 30 31 30 33 36 31-38 5a 17 0d 34 39 30 35 -|
33 30 31 30 33 36 31 38-5a 30 32 31 30 30 13 06 -|
03 55 04 03 1e 0c 00 52-00 4f 00 44 00 45 00 4e -|
00 54 30 19 06 03 55 04-07 1e 12 00 57 00 4f 00 -|
52 00 4b 00 47 00 52 00-4f 00 55 00 50 30 82 01 -|
22 30 0d 06 09 2a 86 48-86 f7 0d 01 01 01 05 00 -I
03 82 01 0f 00 30 82 01-0a 02 82 01 01 00 88 ad -|
7c 8f 8b 82 76 5a bd 8f-6f 62 18 e1 d9 aa 41 fd -
ed 68 01 c6 34 35 b0 29-04 ca 4a 4a 1c 7e 80 14 -|
f7 8e 77 b8 25 ff 16 47-6f bd e2 34 3d 2e 02 b9 -|
53 e4 33 75 ad 73 28 80-a0 4d fc 6c c0 22 53 1b -|
2c f8 f5 01 60 19 7e 79-19 39 8d b5 ce 39 58 dd -|
55 24 3b 55 7b 43 c1 7f-14 2f b0 64 3a 54 95 2b -|
88 49 0c 61 2d ac f8 45-f5 da 88 18 5f ae 42 f8 -|
75 c7 26 6d b5 bb 39 6f-cc 55 1b 32 11 38 8d e4 -|
e9 44 84 11 36 a2 61 76-aa 4c b4 e3 55 0f e4 77 -|
8e de e3 a9 ea b7 41 94-00 58 aa c9 34 a2 98 c6 -
01 1a 76 14 01 a8 dc 30-7c 77 5a 20 71 5a a2 3f -|
af 13 7e e8 fd 84 a2 5b-cf 25 e9 c7 8f a8 f2 8b -|
84 c7 04 5e 53 73 4e 0e-89 a3 3c e7 68 5c 24 b7 -|
80 53 3c 54 c8 c1 53 aa-71 71 3d 36 15 d6 6a 9d -|
7d de ae f9 e6 af 57 ae-b9 01 96 5d e0 4d cd ed -|
```

c8 d7 f3 01 03 38 10 be-7c 42 67 01 a7 23 02 03 -| 01 00 01 a3 13 30 11 30-0f 06 03 55 1d 13 04 08 -30 06 01 01 ff 02 01 00-30 09 06 05 2b 0e 03 02 -| 1d 05 00 03 82 01 01 00-70 db 21 2b 84 9a 7a c3 -| b1 68 fa c0 00 8b 71 ab-43 9f b6 7b b7 1f 20 83 -| ac 0a b5 0e ad b6 36 ef-65 17 99 86 8a 3d ba 0c -| 53 2e a3 75 a0 f3 11 3d-e7 65 4b ae 3c 42 70 11 -| dc ca 83 c0 be 3e 97 71-84 69 d6 a8 27 33 9b 3e -17 3c a0 4c 64 ca 20 37-a4 11 a9 28 8f b7 18 96 -| 69 15 0d 74 04 75 2a 00-c7 a6 6a be ac b3 f2 fb -|06 1b 6c 11 bd 96 e2 34-74 5d f5 98 8f 3a 8d 69 -08 6f 53 12 4e 39 80 90-ce 8b 5e 88 23 2d fd 55 -| fd 58 3d 39 27 b3 7c 57-fe 3b ab 62 26 60 e2 d0 -| c8 f4 02 23 16 c3 52 5d-9f 05 49 a2 71 2d 6d 5b -| 90 dd bf e5 a9 2e f1 85-8a 8a b8 a9 6b 13 cc 8d -| 4c 22 41 ad 32 le 3b 4b-89 37 66 df le a5 4a 03 -| 52 1c d9 19 79 22 d4 a7-3b 47 93 a9 0c 03 6a d8 -| 5f fc c0 75 33 e5 26 da-f7 4a 77 d8 f1 30 80 39 -| 38 le 86 ld 97 00 9c 0e-ba 00 54 8a c0 12 32 6f -| 3d c4 15 f9 50 f8 ce 95-30 82 04 71 30 82 03 5d -| a0 03 02 01 02 02 05 03-00 00 00 0f 30 09 06 05 -I 2b 0e 03 02 1d 05 00 30-32 31 30 30 13 06 03 55 -04 03 1e 0c 00 52 00 4f-00 44 00 45 00 4e 00 54 -| 30 19 06 03 55 04 07 1e-12 00 57 00 4f 00 52 00 -| 4b 00 47 00 52 00 4f 00-55 00 50 30 1e 17 0d 30 -37 30 36 32 30 31 34 35-31 33 35 5a 17 0d 30 37 -| 30 39 31 38 31 34 35 31-33 35 5a 30 7f 31 7d 30 -| 13 06 03 55 04 03 1e 0c-00 52 00 4f 00 44 00 45 -| 00 4e 00 54 30 21 06 03-55 04 07 1e 1a 00 41 00 -64 00 6d 00 69 00 6e 00-69 00 73 00 74 00 72 00 -1 61 00 74 00 6f 00 72 30-43 06 03 55 04 05 1e 3c -| 00 31 00 42 00 63 00 4b-00 65 00 64 00 79 00 32 -| 00 6b 00 72 00 4f 00 34-00 2f 00 4d 00 43 00 44 -1 00 4c 00 49 00 31 00 41-00 48 00 5a 00 63 00 50 -| 00 69 00 61 00 73 00 3d-00 0d 00 0a 30 82 01 22 -| 30 0d 06 09 2a 86 48 86-f7 0d 01 01 01 05 00 03 -| 82 01 0f 00 30 82 01 0a-02 82 01 01 00 88 ad 7c -8f 8b 82 76 5a bd 8f 6f-62 18 el d9 aa 41 fd ed -| 68 01 c6 34 35 b0 29 04-ca 4a 4a 1c 7e 80 14 f7 -8e 77 b8 25 ff 16 47 6f-bd e2 34 3d 2e 02 b9 53 -| e4 33 75 ad 73 28 80 a0-4d fc 6c c0 22 53 1b 2c -| f8 f5 01 60 19 7e 79 19-39 8d b5 ce 39 58 dd 55 -| 24 3b 55 7b 43 c1 7f 14-2f b0 64 3a 54 95 2b 88 -| 49 Oc 61 2d ac f8 45 f5-da 88 18 5f ae 42 f8 75 -| c7 26 6d b5 bb 39 6f cc-55 1b 32 11 38 8d e4 e9 -| 44 84 11 36 a2 61 76 aa-4c b4 e3 55 0f e4 77 8e -| de e3 a9 ea b7 41 94 00-58 aa c9 34 a2 98 c6 01 -| 1a 76 14 01 a8 dc 30 7c-77 5a 20 71 5a a2 3f af -| 13 7e e8 fd 84 a2 5b cf-25 e9 c7 8f a8 f2 8b 84 -| c7 04 5e 53 73 4e 0e 89-a3 3c e7 68 5c 24 b7 80 -| 53 3c 54 c8 c1 53 aa 71-71 3d 36 15 d6 6a 9d 7d -| de ae f9 e6 af 57 ae b9-01 96 5d e0 4d cd ed c8 -| d7 f3 01 03 38 10 be 7c-42 67 01 a7 23 02 03 01 -1 00 01 a3 82 01 47 30 82-01 43 30 14 06 09 2b 06 -| 01 04 01 82 37 12 04 01-01 ff 04 04 01 00 05 00 -| 30 3c 06 09 2b 06 01 04-01 82 37 12 02 01 01 ff -| 04 2c 4d 00 69 00 63 00-72 00 6f 00 73 00 6f 00 -| 66 00 74 00 20 00 43 00-6f 00 72 00 70 00 6f 00 -| 74 00 69 00-6f 00 6e 00 00 00 30 56 -| 72 00 61 00 06 09 2b 06 01 04 01 82-37 12 05 01 01 ff 04 46 -| 00 30 00 00 01 00 00 00-ff 00 00 00 04 00 00 -| 1c 00 08 00 24 00 16 00-3a 00 01 00 41 00 30 00 -32 00 00 00 41 00 30 00-32 00 2d 00 36 00 2e 00 -| 30 00 30 00 2d 00 53 00-00 00 06 00 00 00 00 80 -| 64 80 00 00 00 00 30 6e-06 09 2b 06 01 04 01 82 -37 12 06 01 01 ff 04 5e-00 30 00 00 00 00 0e 00 -| 3e 00 52 00 4f 00 44 00-45 00 4e 00 54 00 00 00 -I 37 00 38 00 34 00 34 00-30 00 2d 00 30 00 30 00 -| 36 00 2d 00 35 00 38 00-36 00 37 00 30 00 34 00 -|

```
35 00 2d 00 37 00 30 00-33 00 34 00 37 00 00 00 -|
57 00 4f 00 52 00 4b 00-47 00 52 00 4f 00 55 00 -|
50 00 00 00 00 00 30 25-06 03 55 1d 23 01 01 ff -|
04 1b 30 19 a1 10 a4 0e-52 00 4f 00 44 00 45 00 -|
4e 00 54 00 00 00 82 05-03 00 00 00 0f 30 09 06 -1
05 2b 0e 03 02 1d 05 00-03 82 01 01 00 13 1b dc -|
89 d2 fc 54 0c ee 82 45-68 6a 72 c3 3e 17 73 96 -1
53 44 39 50 0e 0b 9f 95-d6 2c 6b 53 14 9c e5 55 -|
ed 65 df 2a eb 5c 64 85-70 1f bc 96 cf a3 76 b1 -|
72 3b e1 f6 ad ad ad 2a-14 af ba d0 d6 d5 6d 55 -|
ec 1e c3 4b ba 06 9c 59-78 93 64 87 4b 03 f9 ee -|
4c dd 36 5b bd d4 e5 4c-4e da 7b c1 ae 23 28 9e -|
77 6f 0f e6 94 fe 05 22-00 ab 63 5b e1 82 45 a6 -
ec 1f 6f 2c 7b 56 de 78-25 7d 10 60 0e 53 42 4b -|
6c 7a 6b 5d c9 d5 a6 ae-c8 c8 52 29 d6 42 56 02 -|
ec f9 23 a8 8c 8d 89 c9-7c 84 07 fc 33 el le ea -|
e2 8f 2b be 8f a9 d3 d1-e1 5e 0b dc b6 43 6e 33 -|
0a f4 2e 9d 0c c9 58 54-34 aa e1 d2 a2 e4 90 02 -|
23 26 a0 92 26 26 0a 83-b4 4d d9 4b ef eb 9d a9 -1
24 3f 92 8b db 04 7b 9d-64 91 a4 4b d2 6e 51 05 -|
08 c9 91 af 31 26 55 21-b1 ea ce a3 a4 0d 5e 4c -|
46 db 16 2d 98 dc 60 19-b8 1b b9 cd fb 31 00
LicenseInfo::pbLicenseInfo
0x7f7: MACData (0x10 bytes)
ed-e8 bf d6 13 a0 f5 80 -\
4a e5 ff 85 16 fa cb 1f -/ MACData
```

4.7 Server Upgrade License (SERVER_UPGRADE_LICENSE)

The **Server Upgrade License** message is sent to the client to upgrade a license in its **license store**. The message type is UPGRADE_LICENSE (0x04) in the **Licensing Preamble** (section 2.2.1.2). See section 2.2.2.6 for more information.

```
00000000 04 03 95 1b 09 00 7d 1b-40 06 79 f3 66 e3 1c ef ......}.@.y.f...
00000010 a3 06 7d ab 98 9a c8 a9-7b 55 57 2a 43 43 2a 85
                                                       ..}....{UW*CC*.
00000020 33 f3 97 39 23 b7 ca 83-88 09 85 14 fe c0 65 d8
                                                      3..9#....e.
00000030 1b 53 e2 50 64 51 db a3-cb 4e 2c 52 ac 0d b5 40
                                                      .S.PdQ...N, R...@
00000040
        3d 9f c3 04 47 ff 94 de-09 80 00 c5 4b 11 5c 0e
                                                      = \dots G \dots K \cdot \setminus .
00000050 3a 4a f9 45 15 al 96 7c-34 ec ae d8 16 48 c4 05
                                                      :J.E...|4....H..
00000060 d1 cf b8 d7 05 dc 2e fe-8e bf 19 1d bd 3d f9 89
                                                      00000070 e7 38 61 e2 95 e9 38 9e-11 ee 44 c1 46 44 77 c4
                                                       .8a...8...D.FDw.
00000080 c7 ee 38 6e a4 c2 ca 87-47 ae 3f 7d ed cb f0 01
                                                       ..8n....G.?}....
00000090 22 f7 bf 0f cc 63 29 42-40 dl 65 3f ld 8a 6d 60
                                                      "....c)B@.e?..m`
000000A0 e7 09 2a 03 ff f5 a3 6f-d0 b0 58 6b 05 fb f1 07
                                                       ..*...o..Xk....
                                                       .:..O.?.-h...Y..
000000B0 da 3a fa 92 4f bc 3f ff-2d 68 bc c8 be 59 95 fd
000000C0 60 ff 13 3f 9f da de 69-39 5d 46 b8 44 19 3d 45
                                                        ..?...i9]F.D.=E
000000D0 1c f5 18 99 d2 da fe 03-a5 6a 03 77 77 42 0a 15
                                                      ....j.wwB..
000000E0 e3 fc 27 9f b9 f7 f8 c3-20 7b 02 98 ed ec 77 6b
                                                      ..'.... {....wk
000000F0 ed f2 65 3f 4d fc 3f 8d-31 92 df f3 b8 28 04 9f
                                                       ..e?M.?.1....(..
00000100 f5 ac a3 e9 5e d0 cc d8-96 95 10 c7 19 3c a6 6e
                                                       ....^.....<.n
00000110 26 54 7d 85 68 30 30 3c-f5 6f e0 ad dc be 1c ea
                                                       &T}.h00<.o....
00000120
        33 53 46 3c 7f 7d c4 0c-le d2 4e 5c 7c 6a d4 6d
                                                      3SF<.}....N\|j.m
00000130 92 9a 76 71 40 3d 61 bb-9e 69 94 2c 45 2e 7f 49
                                                       ..vq@=a..i.,E..I
00000150 77 59 bd 52 23 e0 e7 79-75 13 5d a4 93 3f fb f9
                                                      wY.R#..yu.]..?..
00000160 e0 a9 69 7f 32 a8 7c 1b-87 a9 3f 12 21 ed 54 c5
                                                       ..i.2.|...?.!.T.
00000170 4c e8 c4 57 5c c5 6f 76-79 7f b7 70 9b 19 1f 64
                                                      L..W\.ovy..p...d
00000180 9e d3 17 cf 03 6c 78 fe-71 b9 c7 aa 3f 5f 25 00
                                                      .....lx.q...? %.
00000190
        1d ff d1 74 65 f9 ef 3c-b3 ac 69 51 8b a3 b3 07
                                                       ...te..<..iQ....
000001A0 97 ca 0e b4 42 eb 15 13-e3 e2 9a 8e 3d 50 bd 28
                                                       ....B.....=P.(
000001B0 f9 98 08 bb aa 23 1a 64-0f 15 72 f8 3a d6 24 14
                                                      ....#.d..r.:.$.
000001C0 b3 73 12 5a 50 b8 61 8b-98 e0 1e c3 5c cc e7 e7
                                                       .s.ZP.a....\...
.7?...%..H...[].
000001E0 d4 87 93 38 b2 99 72 ae-68 81 c2 e4 cb ed 34 21
                                                      ...8..r.h....4!
```

000001F0	h5	81	62	Λ۵	аf	90	22	13-88	fc	88	64	2 f	hЗ	1.8	0.4	bd/
00000200								43-42								D.e7.CB9
00000210								3e-24]Z.>.>\$%=Y
00000220	12	ef	с8	ef	53	c7	4b	f0-7d	c1	49	bd	5c	5f	сЗ	07	S.K.}.I.\
00000230	0b	6b	b3	07	86	8a	c0	7d-20	61	17	62	45	04	69	6a	.k} a.bE.ij
00000240								b4-d1								i.K
00000250								be-c1							7f	."x*I
00000260	4 d	87	8c	26	02	26	30	52-6b	ff	72	21	ed	fb	c4	db	M&.&ORk.r!
00000270	6a	ed	31	e0	a0	eb	02	6f-60	37	48	За	ac	76	d2	4c	j.1o`7H:.v.L
00000280	fb	62	5b	b0	79	0.7	40	53-51	2.0	87	9c	f7	2.0	с8	94	.b[.y.@SQ
00000290								2d-4d								q-M.>".5
000002A0								a0-e2								b {!'.
000002B0								87-df								.q3
000002C0	64	Зс	f9	bf	9e	CC	f3	25-22	d5	6e	67	aa	41	c0	3е	d<%".ng.A.>
000002D0	61	f2	8a	bc	7b	8.3	88	fa-60	91	51	42	d3	d4	30	bb	a{`.QB0.
000002E0								57-db								.bq@WhW.V
																-
000002F0								5f-13								Lk
00000300								65-a9								.(.O.{.e@rO.
00000310	ad	10	63	25	0 f	d3	db	93-eb	ce	41	22	e5	a5	е9	99	c%A"
00000320	16	76	d1	f1	11	2a	55	0f-ce	be	94	3a	82	b3	7a	d0	.v*U:z.
00000330								19-2d								}H.FY.q0.KX
								71-2f								
00000340																.3. Z.cq/.x\$J.p.
00000350								a2-e3							С6	EM.~.Q}
00000360	89	63	£2	e7	£2	8e	08	bf-e3	96	99	c4	81	3b	64	CC	.c;d.
00000370	29	6b	b3	ad	a8	с6	ea	67-87	12	d3	a4	9e	e4	с3	5a) kgZ
00000380								4d-ba								H.6uuM'E.[
00000390								6c-f9								clr
000003A0								50-d4								5lP.b#1.&
000003B0	7a	b2	22	09	1a	e1	21	b3-06	се	23	40	a4	2f	40	66	z."!#@./@f
000003C0	e 1	23	0.8	98	e 4	h8	fa	52-17	64	09	£5	39	9a	64	ac	.#R.d9.d.
000003D0								47-07								kS[w.G.e.J.S.T
000003E0								8e-a9							1b	}~r^ks.
000003F0	a5	96	04	5b	47	1d	9a	6f-ac	6f	1a	60	1f	f9	38	5b	[Go.o.`8[
00000400	da	aa	cb	7с	80	f9	2d	9a-c9	03	f4	24	e4	d4	61	a8	\$a.
00000410	a6	b8	59	87	36	Зс	3d	0f-99	0e	С4	38	6d	f5	5f	89	Y.6<=8m
00000420								01-51								.F.\.j(.Qq]
00000430								16-a6								y[.2>T}.e
00000440								7b-6b								o\${kW
00000450	3d	66	с5	dc	68	05	ae	02-51	7b	£9	96	eb	de	ac	dd	$=fhQ{$
00000460	5d	94	df	a4	8d	c0	90	e7-4b	d7	20	2d	2e	ba	e6	2a]
00000470								7c-21								hmE !dH.
00000480			00		- 0											
		/l +	00	.3.1	> Q	71	ha		na	.3 6	63					BO 1 or 1 6c 59
								04-21								BO.1.q!.6c5S
00000490	19	4f	bb	0a	b9	fa	d9	6b-4a	сO	19	3f	23	9e	15	d5	.0kJ?#
00000490 000004A0	19	4f	bb	0a	b9	fa	d9		сO	19	3f	23	9e	15	d5	
	19 36	4f 8c	bb 6c	0a 6c	b9 f9	fa 23	d9 4e	6b-4a	с0 e7	19 78	3f 9b	23 b4	9e 69	15 03	d5 37	.0kJ?#
000004A0	19 36 80	4f 8c d2	bb 6c 60	0a 6c 12	b9 f9 14	fa 23 7f	d9 4e 88	6b-4a 0f-ab	c0 e7 31	19 78 8e	3f 9b d2	23 b4 49	9e 69 ab	15 03	d5 37 be	.OkJ?# 6.ll.#Nxi.7 `j.1I.<
000004A0 000004B0 000004C0	19 36 80 22	4f 8c d2 b6	bb 6c 60 7b	0a 6c 12 41	b9 f9 14 b3	fa 23 7f 2e	d9 4e 88 84	6b-4a 0f-ab 6a-ae e9-2f	c0 e7 31 7f	19 78 8e e4	3f 9b d2 7a	23 b4 49 22	9e 69 ab a0	15 03 3c 3f	d5 37 be 48	.OkJ?# 6.ll.#Nxi.7 `j.1I.<. ".{A/z".?H
000004A0 000004B0 000004C0 000004D0	19 36 80 22 1d	4f 8c d2 b6 7b	bb 6c 60 7b a5	0a 6c 12 41 c1	b9 f9 14 b3 c6	fa 23 7f 2e 5c	d9 4e 88 84 25	6b-4a 0f-ab 6a-ae e9-2f b0-2c	c0 e7 31 7f b2	19 78 8e e4 ff	3f 9b d2 7a f4	23 b4 49 22 28	9e 69 ab a0 e6	15 03 3c 3f ef	d5 37 be 48 51	.0kJ.?# 6.11.#Nx.i.7j.1.I.<. ".{A/.z".?H .{\%.,(Q
000004A0 000004B0 000004C0 000004D0 000004E0	19 36 80 22 1d 73	4f 8c d2 b6 7b de	bb 6c 60 7b a5 4c	0a 6c 12 41 c1 d3	b9 f9 14 b3 c6 9b	fa 23 7f 2e 5c eb	d9 4e 88 84 25 13	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3	c0 e7 31 7f b2 8a	19 78 8e e4 ff 64	3f 9b d2 7a f4 ee	23 b4 49 22 28 1f	9e 69 ab a0 e6	15 03 3c 3f ef 00	d5 37 be 48 51 e1	.0kJ.?# 6.11.#Nx.i.7j.1.I.<. ".{A/.z".?H .{\%.,(Q s.Ld.i.
000004A0 000004B0 000004C0 000004D0 000004E0 000004F0	19 36 80 22 1d 73 8a	4f 8c d2 b6 7b de f3	bb 6c 60 7b a5 4c b8	0a 6c 12 41 c1 d3 08	b9 f9 14 b3 c6 9b d8	fa 23 7f 2e 5c eb 98	d9 4e 88 84 25 13	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3 65-ee	c0 e7 31 7f b2 8a 90	19 78 8e e4 ff 64 67	3f 9b d2 7a f4 ee 0f	23 b4 49 22 28 1f 6e	9e 69 ab a0 e6 69 04	15 03 3c 3f ef 00 54	d5 37 be 48 51 e1	.0kJ.?# 6.11.#Nx.i.7j.1.I.<. ".{A/.z".?H .{\%.,(Q s.Ld.ieg.n.T.
000004A0 000004B0 000004C0 000004D0 000004E0	19 36 80 22 1d 73 8a	4f 8c d2 b6 7b de f3	bb 6c 60 7b a5 4c b8	0a 6c 12 41 c1 d3 08	b9 f9 14 b3 c6 9b d8	fa 23 7f 2e 5c eb 98	d9 4e 88 84 25 13	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3	c0 e7 31 7f b2 8a 90	19 78 8e e4 ff 64 67	3f 9b d2 7a f4 ee 0f	23 b4 49 22 28 1f 6e	9e 69 ab a0 e6 69 04	15 03 3c 3f ef 00 54	d5 37 be 48 51 e1	.0kJ.?# 6.11.#Nx.i.7j.1.I.<. ".{A/.z".?H .{\%.,(Q s.Ld.i.
000004A0 000004B0 000004C0 000004D0 000004E0 000004F0	19 36 80 22 1d 73 8a 77	4f 8c d2 b6 7b de f3 bb	bb 6c 60 7b a5 4c b8 a4	0a 6c 12 41 c1 d3 08 b4	b9 f9 14 b3 c6 9b d8 a8	fa 23 7f 2e 5c eb 98 57	d9 4e 88 84 25 13 19 33	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3 65-ee	c0 e7 31 7f b2 8a 90 c0	19 78 8e e4 ff 64 67 a9	3f 9b d2 7a f4 ee 0f 4f	23 b4 49 22 28 1f 6e e0	9e 69 ab a0 e6 69 04 14	15 03 3c 3f ef 00 54 3a	d5 37 be 48 51 e1 10	.0kJ.?# 6.11.#Nx.i.7j.1.I.< ".{A/.z".?H .{\%.,(Q s.Ldieg.n.T. wW3LO.::
000004A0 000004B0 000004C0 000004D0 000004E0 000004F0 00000500	19 36 80 22 1d 73 8a 77 ee	4f 8c d2 b6 7b de f3 bb 8d	bb 6c 60 7b a5 4c b8 a4 bb	0a 6c 12 41 c1 d3 08 b4 c6	b9 f9 14 b3 c6 9b d8 a8 37	fa 23 7f 2e 5c eb 98 57 e0	d9 4e 88 84 25 13 19 33 cb	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3 65-ee 4c-f1 cd-56	c0 e7 31 7f b2 8a 90 c0 50	19 78 8e e4 ff 64 67 a9 e2	3f 9b d2 7a f4 ee 0f 4f 16	23 b4 49 22 28 1f 6e e0 8e	9e 69 ab a0 e6 69 04 14	15 03 3c 3f ef 00 54 3a 17	d5 37 be 48 51 e1 10 19 b1	.OkJ.?# 6.11.#Nx.i.7 .`j.1.I.< ".{A/.z".?H .{\%.,(.Q s.Ld.ie.g.n.T wW3LO.:.
000004A0 000004B0 000004C0 000004D0 000004E0 000004F0 00000500 00000510	19 36 80 22 1d 73 8a 77 ee 11	4f 8c d2 b6 7b de f3 bb 8d dc	bb 6c 60 7b a5 4c b8 a4 bb ed	0a 6c 12 41 c1 d3 08 b4 c6 9b	b9 f9 14 b3 c6 9b d8 a8 37 bc	fa 23 7f 2e 5c eb 98 57 e0 8a	d9 4e 88 84 25 13 19 33 cb	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3 65-ee 4c-f1 cd-56 1b-f2	c0 e7 31 7f b2 8a 90 c0 50 dc	19 78 8e e4 ff 64 67 a9 e2 06	3f 9b d2 7a f4 ee 0f 4f 16 50	23 b4 49 22 28 1f 6e e0 8e 53	9e 69 ab a0 e6 69 04 14 1f 89	15 03 3c 3f ef 00 54 3a 17 37	d5 37 be 48 51 e1 10 19 b1	.OkJ.?# 6.11.#Nx.i.7j.1.I.< ".{A/.z".?H .{\%.,(Q s.Ldieg.n.T. wW3LO.:7VP
000004A0 000004B0 000004C0 000004D0 000004E0 000004F0 00000500 00000510 00000520 00000530	19 36 80 22 1d 73 8a 77 ee 11	4f 8c d2 b6 7b de f3 bb 8d dc c4	bb 6c 60 7b a5 4c b8 a4 bb ed 59	0a 6c 12 41 c1 d3 08 b4 c6 9b 4b	b9 f9 14 b3 c6 9b d8 a8 37 bc	fa 23 7f 2e 5c eb 98 57 e0 8a 88	d9 4e 88 84 25 13 19 33 cb 14 56	6b-4a 0f-ab 6a-ae e9-2f b0-2c 1b-a3 65-ee 4c-f1 cd-56 1b-f2 b4-2b	c0 e7 31 7f b2 8a 90 c0 50 dc	19 78 8e e4 ff 64 67 a9 e2 06 c0	3f 9b d2 7a f4 ee 0f 4f 16 50 e3	23 b4 49 22 28 1f 6e e0 8e 53 b7	9e 69 ab a0 e6 69 04 14 1f 89	15 03 3c 3f ef 00 54 3a 17 37 ca	d5 37 be 48 51 e1 10 19 b1 16 c9	.OkJ.?# 6.11.#Nx.i.7j.1.I.< ".{A/.z".?H .{\%.,(Q s.Ldieg.n.T. wW3LO.:7VPPS.7. 7.YKV.+L
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00000670	de	6e	e1	39	32	2e	41	f4-57	c0	a4	13	b5	56	3е	6e	.n.92.A.WV>n
00000680	a 4	a3	~ 0	76	0.1	C6	4 c	03-b5	8 f	h4	c 9	42	aa	a 8	7b	vLB{
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000006A0	e^0	30	2b	bc	4 f	98	e4	85-13	7с	17	66	34	74	d8	59	.0+.O .f4t.Y
000006B0	6b	f1	98	C6	2b	65	7a	a9-cd	ea	ac	3d	74	7d	3b	f0	$k+ez=t$ };.
000006C0								30-66								
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000006D0	5.7	06	8./	b9	b'/	53	37	9c-2b	4'/	78	cb	b2	21	d8	be	WS7.+Gx!
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00000730								34-28								.R=ha4(Zvn.)
00000740	23	be	6 f	0d	ff	fa	02	e5-83	95	b5	d8	ec	6C	33	41	#.o13A
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00000770								b0-b4								%"c'
00000780	ee	78	5f	af	f1	87	7a	45-2a	05	29	09	43	b1	4 f	0d	.xzE*.).C.O.
00000790	02	72	d7	е3	9b	14	10	a4-68	c1	f3	de	55	f6	b4	8c	.rhU
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00000830	ee	42	е3	a2	c7	31	00	c0-30	55	d6	b9	43	45	3f	fe	.B10UCE?.
00000840	e1	b3	13	cd	62	60	78	92-3e	a8	c7	bc	cd	0a	83	7e	b`x.>~
00000850								18-11								~.VN=
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00000870	05	2e	3d	d5	2e	68	3b	7d-ce	са	64	2c	а7	d2	fc	С6	=h;}d,
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000008B0	d0	00	6d	dc	a9	е9	35	65-b7	6e	86	28	b3	b2	4d	6d	m5e.n.(Mm
000008C0	d9	22	77	aa	81	f2	1b	c1-b8	89	67	f3	9f	0d	0b	51	."wgQ
000008D0								1f-dc								g#UO
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000015E0								52-bf								hKRe
000015F0								d6-52								H,.hRv3.t.
00001600	3а	8e	7с	84	С4	4a	bc	82-af	bf	71	53	С6	21	6f	91	:. JqS.!o.
00001610	0b	1f	29	е6	86	9e	d2	66-10	24	32	f9	0b	b9	e8	27)f.\$2'
00001620	c4	2a	a8	2b	32	2f	aa	45-a8	98	d4	c0	b0	7b	b1	1d	.*.+2/.E{
00001630	5e	c2	с8	76	9e	56	с7	02-7a	8b	ee	4b	f7	се	0с	dc	^v.VzK
00001640								ca-ed								.j".s.XJ55.(
00001650								60-c7								S:`e.0
00001660								ea-04								x{`@
00001670								cd-10								Z.
00001680								cb-6c								vyIM.l.u.h.`J
00001690								d4-5e								`Q.v.Qh.^,o
000016A0	6e	2e	2e	c1	23	cb	a7	b1-ab	97	6d	24	73	f1	94	39	n#m\$s9
000016B0	00	1d	36	de	97	83	3a	b8-37	с3	af	ba	93	2d	52	2f	6:.7R/
000016C0	a6	0a	cf	ec	С4	2e	24	5e-ae	06	69	68	2a	30	6d	4f	\$^ih*0mO
000016D0	8b	8c	20	15	34	ab	с9	06-cc	db	34	89	22	9f	21	d0	44.".!.
000016E0								2d-65								5vsez
000016E0								64-aa								.%.Sd.u0.
								d6-0f								UE.t~GC.
00001700																
00001710								87-c0								+/=
00001720								21-4d								*F
00001730								b7-66								F4.f(#bF
00001740								d6-5b								.U[
00001750	11	da	71	5f	3f	db	87	a8-6c	c0	b4	10	f5	6e	2d	dd	q_?ln
00001760	3а	09	50	89	сf	78	С4	0b-70	a6	61	97	2a	ab	3d	d6	:.Pxp.a.*.=.
00001770	be	d4	90	77	ae	18	58	97-fd	74	41	9e	се	За	59	с2	wXtA:Y.

```
00001780 fc 87 18 33 25 e8 24 48-4c 3a 11 2b 28 6a 2e 76 ...3%.$HL:.+(j.v
00001790 c4 1d a0 ac ea 34 96 d5-69 6d a5 8c 7e 73 d2 b7
                                                         ....4..im..~s..
000017A0 01 66 99 34 50 e9 ba ab-26 95 5f 20 90 d2 67 25
                                                         .f.4P...&. ..g%
         71 e0 ac 61 73 73 4c cf-81 df 62 41 9f 94 12 27
                                                         q..assL...bA...'
000017B0
                                                         w.....C3&ik@WB.
000017C0
         77 81 aa 8f c2 90 bc 43-33 26 69 6b 40 57 42 fc
000017D0
         30 23 56 e0 f7 a9 27 c0-0c 9f 12 8e 96 a0 96 56
                                                         0#V...'....V
000017E0 b9 c7 ee 4c 7e 7e c2 62-05 16 b9 46 f8 dd 9b 9d
                                                        ...L~~.b...F....
                                                         ....'....*..'q..
000017F0 81 fc 9c e4 27 91 e2 f1-9e 2a b6 fd 27 71 ac 0c
                                                         ....../o.7.".?.
00001800 f3 d5 83 fb 1d 1c 9e 2f-6f af 37 fd 22 ff 3f cf
00001810 92 cf ca 9e f1 79 40 8e-0f b4 be 10 d5 eb 14 72
                                                         .....y@.....r
00001820 94 89 ec db 3f 98 31 c0-cb ff 97 7b 4d e5 0b 50
                                                         ....?.1....{M..P
00001830 46 35 a4 01 50 37 5d 10-49 8a 82 1e 53 7f 27 f2
                                                         F5..P7].I...S.'.
...."....fI...)..
                                                         o.....(.K4..o9f
00001850 6f d2 18 b5 80 b4 d1 28-df 4b 34 e9 c4 6f 39 66
00001860 8f 61 a2 6e 6a b9 f8 63-d6 9c 33 e5 70 ac 45 0b
                                                         .a.nj..c..3.p.E.
00001870 b1 e4 91 74 b1 6f 2c 52-0b e5 e2 9f bd 82 65 d6
                                                         ...t.o,R....e.
00001880 fa fd 12 c6 a9 b0 4f fe-bf 9e ec 45 ff aa b3 d2
                                                         .....O....E....
                                                         ....-.4C....v..
00001890 87 f2 c2 d0 ce 2d be 34-43 de c4 9a 86 76 d0 ce
                                                         ..z.<.8.m.....
000018A0 d3 7f 5a 89 3c a7 38 a3-6d a7 81 b4 e3 c3 d9 b7
000018B0 9a 46 d4 a4 eb b8 73 08-6b 4d f4 1c cd bb 92 05
                                                         .F....s.kM.....
000018C0 ef e6 e1 73 cd 18 45 58-15 19 19 2b 62 9d 87 c6
                                                         ...s..EX...+b...
000018D0 2b 94 2e d9 4a da f0 d8-b8 42 c8 ac ae 2f e7 23
                                                         +...J....B.../.#
000018E0 da ff 47 bc 1e 69 c8 d2-af a8 d0 dd 2e de c0 54
                                                         ..G..i.....T
000018F0 6b 30 32 dd e8 bf 51 53-61 a9 63 f0 6f 61 33 b9
                                                         k02...QSa.c.oa3.
00001900 3d 75 72 34 d7 ba 59 69-19 1d 1e f6 15 27 ec 6f
                                                         =ur4..Yi.....'.o
00001910  3e 00 03 1c 8e d2 f5 10-ba 1e 14 19 21 00 99 da
                                                         >....!...
00001920
         a3 06 aa 12 18 88 96 17-de 5c 0e a0 1e 9c 03 57
                                                         ....\....W
00001930 28 7f b1 18 79 52 07 c3-ae 01 09 ef 99 ba c6 29
                                                         (...yR....)
00001940 89 fc bd 3c c8 a7 09 fd-3e 0b e5 d5 c9 59 89 87
                                                         ...<...>...Y..
00001950 15 c2 85 1c 16 6c fa 88-61 08 bf 78 1d ba f8 bd
                                                         ....l..a..x....
00001960 c1 75 71 le b1 4e ce 19-64 7b 7c 61 39 09 c5 3c
                                                         .uq..N..d{|a9..<
00001970 c5 6b 61 f3 3a e6 37 f0-34 cf 46 bf 45 50 33 cb
                                                         .ka.:.7.4.F.EP3.
00001980 95 13 52 0e 38 9d 8c 74-62 2e e8 e1 b8 4d fb 8c
                                                         ..R.8..tb....M..
00001990 a7 c3 7e 6d 44 a0 0a 46-99 cd 63 b8 b7 e9 3c 72
                                                         ..~mD..F..c...<r
000019A0 ed eb 10 3b 6e dd 2e dc-0b 70 3e 69 a0 31 22 6c
                                                         ...;n....p>i.1"l
000019B0 b1 7b ca 27 4d 1f ea 31-d7 ed 31 09 0d 0f 95 bd
                                                         .{.'M..1..1....
         77 el a4 8c df 7a 2e 62-5d 64 56 72 99 51 a3 ae
                                                         w....z.b]dVr.Q..
00001900
000019D0 c3 2d 42 c8 62 f4 c0 8a-81 8c 2e 57 20 a6 b3 cb
                                                         .-B.b.....W ...
000019E0 6f 17 0c 18 82 6c 8b 79-c5 6e d3 3c 7a 5b 27 80
                                                         o....l.y.n.<z['.
000019F0 b6 24 ea 2e a7 4d 50 7d-a2 fd 47 3b da ef 9b a6
                                                         .$...MP}..G;....
         5a 9f 5f 71 32 f5 fc 8f-8d a4 35 01 fb d8 a7 8c
00001A00
                                                         Z. q2....5....
                                                         ..1....O..K.a
00001A10 14 9c 6c f2 b7 d8 0a 5f-2e a1 4f 19 e4 4b d9 71
00001A20 cc b4 58 28 2c 14 8b 07-fd a6 18 50 e0 78 a8 bf
                                                         ..X(,....P.x..
                                                         ....2....2
00001A30 85 d6 bc 1c ff 13 e6 93-b6 32 b1 7f 0d 15 00 08
00001A40 37 65 3b 64 62 f0 77 ad-7f 1d 6e 2b 94 31 6a 18
                                                         7e;db.w...n+.1j.
00001A50 e6 b2 ad 35 cd 60 60 17-bb bd f3 28 67 9b f7 4b
                                                         ...5.``....(g..K
00001A60 37 dd 41 1a 92 d1 91 cb-31 70 3e ad 1e d2 63 ba
                                                         7.A....1p>...c.
                                                         .;...r...WJ.x.
00001A70 a4 3b 81 81 8c e7 72 82-e6 97 57 4a d1 78 9a 60
00001A80 0a 31 82 07 69 3c 98 d8-75 e2 46 82 26 c9 4a d1
                                                         .1..i<..u.F.&.J.
00001A90 65 63 99 72 94 13 46 a5-e9 27 ea al 83 50 ab 44
                                                         ec.r..F..'...P.D
                                                         .u4^.....
00001AA0 c7 75 34 5e 18 86 c5 9a-ae b3 e2 bb f9 db f5 9a
00001AB0 96 e3 c8 f2 fc 3d 48 e5-a4 53 f6 40 68 4b bc 57
                                                         ....=H..S.@hK.W
                                                         .Z!E.n...z.k..?)
00001AC0 c2 5a 21 45 1b 6e ae 14-a1 7a 07 6b f0 9c 3f 29
00001AD0 9e 63 a7 9a 32 c4 c1 d0-9e 41 f4 ee 17 2c f0 4f
                                                         .c..2....A...,.O
00001AE0 69 e8 2e 71 e8 68 42 bb-4f 7c 8a 60 cc b5 9f 3d
                                                         i..q.hB.O|.`...=
00001AF0 73 8d 48 1e b7 92 6e 09-59 43 ab 1d fd 4a 03 72 s.H...n.YC...J.r
00001B00 3d 9e f9 24 b9 95 08 2a-9c f5 c7 32 8c 47 ca 0b
                                                         =..$...*...2.G..
00001B10 35 6f ca d7 4c 83 24 3f-ae 40 54 57 6d 2e 9c 8e
                                                         50..L.$?.@TWm...
00001B20 a5 2c 03 2e 12 4c 9a e9-89 58 36 69 9c 86 cb 86
                                                         .,...L...X6i....
00001B30 04 58 cb 23 5e a0 f3 31-06 51 7c a5 e8 be 4f b8
                                                         .X.#^..1.Q|...O.
00001B40 f7 04 f5 1f 67 d7 6f 29-2d f5 91 62 bd 32 4d c0
                                                         ....g.o)-..b.2M.
00001B50 c0 ff al e9 fa a2 95 15-07 86 b7 f2 91 4a bc d3
                                                         ....J..
00001B60 c2 fb b8 38 5b 6d 48 d3-d8 be 88 f8 fa ad 17 63
                                                         ...8[mH.....c
00001B70 ae 92 77 db b3 11 54 39-21 a7 a6 54 8c 6d 4f 60
                                                         ..w...T9!..T.mO`
00001B80 3e 2b 13 fa d1 15 73 da-36 le 92 c8 d0 78 12 c3 >+...s.6...x..
00001B90 1c d3 68 a5 c6 00 ..h..
0x00: LICENSE PREAMBLE (4 bytes)
   04 -> LICENSE PREAMBLE::bMsgType = SERVER_UPGRADE_LICENSE
```

5 Security

5.1 Security Considerations for Implementers

The Remote Desktop Protocol: Licensing Extension uses its own security layer in addition to the RDP security layer (see [MS-RDPBCGR] section 5). Certain fields of licensing messages (see sections 2.2.2.1 through 2.2.2.7) are protected by encryption based on the **license encryption key**.

The license encryption key is different from the **session encryption key** used in the RDP security layer (see [MS-RDPBCGR] section 5.3.5). The license encryption key is always generated irrespective of whether RDP encryption is in effect. The client generates the license encryption key on receipt of the Server License Request message. The server generates the license encryption key on receipt of a <u>Client License Information</u> message or a <u>Client New License Request</u> message. Both client and server use the same license encryption key for the license protocol. For information on how the license encryption key is generated, see section <u>5.1.2</u>.

5.1.1 Client and Server Random Values and Premaster Secrets

The client and server both generate a 32-byte random value using a cryptographically safe random number generator.

The server generates a 32-byte server random value and sends it to the client in the <u>Server License</u> <u>Request</u> message. The server also sends its public key embedded in a <u>server certificate</u> as part of the Server License Request message.

On receipt of a Server License Request message, the client generates a 32-byte client random value. It also generates a 48-byte random number called the premaster secret. The client encrypts the **premaster secret** (see section 5.1.1.1) using the server's public key (embedded in the Server Certificate in the Server License Request message). The client then sends the client random value and the encrypted premaster secret to the server in a <u>Client New License Request</u> message or a <u>Client License Information</u> message, depending on whether the client possesses a license.



Figure 7: Client and server random values and premaster secret flows

For information on how the licensing encryption key is generated, see section 5.1.2.

5.1.1.1 Encrypting the Premaster Secret

The client uses RSA to encrypt the **premaster secret** with the public key of the server. The client obtains the public key from the **terminal server certificate**, which is the leaf certificate in the certificate chain that is obtained from the <u>Server Certificate (SERVER CERTIFICATE)</u> in the <u>Server License Request message</u>.

For encryption with RSA, see [MS-RDPBCGR] sections 5.3.1 and 5.3.4.

5.1.1.2 Decrypting the Premaster Secret

The server decrypts the encrypted **premaster secret** with its private key. For decryption with RSA, see [MS-RDPBCGR] sections 5.3.1 and 5.3.4.

5.1.2 Generating the Licensing Encryption and MAC Salt Keys

Both the client and the server use the licensing encryption key when necessary to encrypt and decrypt licensing message data. Both the client and the server use the method described in this section to generate the licensing encryption key. The key generating procedure is described as follows. Note that the "+" symbol is used in the following procedure to represent concatenation of the keys.

1. The client and server random values and the decrypted **premaster secret** are first used to generate a 384-bit master secret, as follows. Note that **SHA-1 hash** is used.

2. A 384-bit SessionKeyBlob is generated.

3. The first 128 bits of the SessionKeyBlob are used to generate the MAC salt key.

```
MAC-salt-key = First128Bits(SessionKeyBlob)
```

- 4. The MAC salt key is used to generate the **MAC** checksum that the recipient uses to check the integrity of the licensing message.
- 5. The licensing encryption key is derived from the SessionKeyBlob. Note that the "+" symbol is used in the following procedure to represent concatenation of the keys.

```
FinalHash(K) = MD5(K + ClientRandom + ServerRandom)
LicensingEncryptionKey = FinalHash(Second128Bits(SessionKeyBlob))
```

5.1.3 Encrypting Licensing Session Data

The server and the client both encrypt the licensing data with the 128-bit license encryption key (obtained as described in section 5.1.2) using **RC4**. For more information, see [SCHNEIER].

```
EncryptedData = RC4(LicensingEncryptionKey, LicensingData)
```

5.1.4 Decrypting Licensing Session Data

The server and the client both decrypt the licensing data with the 128-bit license encryption key (obtained as specified in section 5.1.2), using **RC4** (for more information, see [MSDN-RC4]).

5.1.5 MAC Generation

Generation of a **MAC** checksum follows a method similar to that specified in [MS-RDPBCGR] section 5.3.6.1. Note that **SHA-1 hash** is used. Also note that the "+" symbol is used in the following procedure to represent concatenation of the keys.

```
MACData = MD5(MAC-salt-key + pad2 + SHA-1 (MAC-salt-key + pad1 + data-length + data-content))
```

The **Pad1**field is the value 0x36 repeated 40 times, the **pad2** field is the value 0x5C repeated 48 times, the **data-length** field is the length of the data to encrypt expressed as a little-endian (Intelordered) UINT32, and the **data-content** field is the full set of data to be encoded.

The MAC salt key is given by the first 128 bits of the licensing session key BLOB. For licensing session key BLOB and MAC salt key generation, see section 5.1.2.

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Windows XP operating system
- Windows Server 2003 operating system
- Windows Vista operating system
- Windows Server 2008 operating system
- Windows 7 operating system
- Windows Server 2008 R2 operating system
- Windows 8 operating system
- Windows Server 2012 operating system
- Windows 8.1 operating system
- Windows Server 2012 R2 operating system
- Windows 10 operating system
- Windows Server 2016 operating system
- Windows Server operating system
- Windows Server 2019 operating system
- Windows Server 2022 operating system
- Windows 11 operating system

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

<1> Section 1.6: Client SKUs of the Windows operating system that support Remote Desktop (Windows XP Professional operating system, Windows Vista, and Windows 7) and server SKUs (Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2 operating system) that run in Remote Administration mode never contact a license server. In such cases, the PDU flow is as specified in section 1.3.3.

<2> Section 2.2.2.1: Windows uses 2048-bit keys. Any client/server combinations that include Windows Server 2003 and Windows XP use 512-bit keys; for example, Windows XP as a client and Windows Server 2012 as a server, or Windows 8 as a client and Windows Server 2003 as a server.

<3> Section 2.2.2.1: The Windows Server 2008 terminal server does not send the server certificate if encryption is in effect and already protecting RDP traffic (for RDP security measures, see [MS-RDPBCGR] sections 5.3 and 5.4).

<4> Section 2.2.2.1: The appropriate license refers to any valid license that can be used to connect to the terminal server in question. A terminal server requires a license of the same version or later to honor the connection. For instance, if the terminal server is running Windows Server 2008, the license store is searched for a Windows Server 2008 license or later version license.

<5> Section 2.2.2.1.1: The Windows Server 2008 R2 and Windows Server 2012 terminal server minor version that is specified in the low-order field of **dwVersion** is 0, which is the same value that is used for Windows Server 2008. See [MSDN-OSVER] for information on getting Windows operating system version numbers.

<7> Section 2.2.2.1.2: Scope Lists originating from Microsoft terminal servers contain only one Scope structure for the entity "microsoft.com".

<8> Section 2.2.2.2: Windows uses 2048-bit keys. Any client/server combinations that include Windows Server 2003 and Windows XP use 512-bit keys; for example, Windows XP as a client and Windows Server 2012 as a server, or Windows 8 as a client and Windows Server 2003 as a server.

<9> Section 2.2.2.2: On Windows platforms, it is relative to the major version number of the operating system and has the following values.

Value	Meaning
CLIENT_OS_ID_WINNT_351 0x01000000	The client operating system version is 3.51.
CLIENT_OS_ID_WINNT_40 0x02000000	The client operating system version is 4.0.
CLIENT_OS_ID_WINNT_50 0x03000000	The client operating system version is 5.0.
CLIENT_OS_ID_WINNT_POST_52 0x04000000	The client operating system version is between 5.2 and 6.3 (inclusive).
CLIENT_OS_ID_WINNT_POST_100 0x08000000	The client operating system version is 10.0 or later.

<10> Section 2.2.2.2: On Microsoft platforms, the second most significant byte can have the following values.

Value	Meaning
CLIENT_IMAGE_ID_MICROSOFT 0x00010000	The ISV for the client image is Microsoft.
CLIENT_IMAGE_ID_CITRIX 0x00020000	The ISV for the client image is Citrix.

<11> Section 2.2.2.2: On Microsoft platforms, the least-significant byte of the **PlatFormId** field contains the minor operating system version.

- <12> Section 2.2.2.4: The wBlobType field is unused in EncryptedPlatformChallenge (part of SERVER PLATFORM_CHALLENGE PDU), which is sent by the server to the client.
- <13> Section 2.2.2.5: The wBlobType field is unused in EncryptedPlatformChallengeResponse (part of CLIENT PLATFORM CHALLENGE RESPONSE PDU), which is sent by the client to the server.
- <14> Section 2.2.2.5.1: The wClientType is WIN32_PLATFORMCHALLENGE_TYPE for all the Microsoft remote desktop clients except for those running in Windows CE where the wClientType is WINCE_PLATFORMCHALLENGE_TYPE.
- <15> Section 2.2.2.6: For Windows Server 2008, Windows Server 2008 R2, and Windows Server 2012, the EncryptedLicenseInfo variable (part of the Server Upgrade License PDU) sent by the server to the client has the wBlobType parameter set to value BB_ENCRYPTED_DATA_BLOB (0x0009). For Windows Server 2003, the value of wBlobType is not defined.
- <16> Section 3.1.5.3: In Windows XP, the RDP connection is not disconnected on receiving ST_TOTAL_ABORT as the state transition in the **Licensing Error Message** (section 2.2.2.8).
- <17> Section 3.1.5.3: All Microsoft implementations of Licensing Extension server and Licensing Extension client never send ST_RESET_PHASE_TO_START and ST_RESEND_LAST_MESSAGE.
- <18> Section 3.2.1.5: For example, the **ScopeList** field in a <u>Server License Request</u> message sent by a **terminal server** running on a Windows operating system has the following content.

```
ScopeCount = 1
ScopeCountArray[0] = "microsoft.com"
```

- <19> Section 3.3.1.3: Windows uses 2048-bit keys. Any client/server combinations that include Windows Server 2003 and Windows XP use 512-bit keys; for example, Windows XP as a client and Windows Server 2012 as a server, or Windows 8 as a client and Windows Server 2003 as a server.
- <20> Section 3.3.2.1: The Windows Vista and Windows Server 2008 Remote Desktop client implements a configurable Client Packet Wait Timer. The default duration of this timer is 300 seconds.

7 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Description	Revision class
6 Appendix A: Product Behavior	Updated for this version of Windows Client.	Major

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