

Gentran Integration Suite™

Using RosettaNet™

Version 4.2

Sterling Commerce
An IBM Company

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Working with RosettaNet Trading Partners

To effectively set up trading partners that implement RosettaNet™, you must configure Gentran Integration Suite with specific RosettaNet message data settings. This section provides an overview of the steps to set up trading partner information, including the different types of contracts necessary, along with the specific configuration settings that enable you to meet your RosettaNet data exchange requirements. After setting up your trading partner information, you can then create and implement business processes that comply with RosettaNet standards.

To configure trading partner information to implement RosettaNet, you must:

1. Create a trading profile for your organization and each of your trading partners. The trading profile enables you to define how you want to:
 - ◆ Build and parse RosettaNet message data.
 - ◆ Define message security and transport protocols.
2. Depending on contractual requirements agreed upon by you and your trading partner, you then create the following types of contracts:
 - ◆ For each RosettaNet Partner Interface Processes™ (PIP) you plan to exchange. For example, if the company is initiating and responding to PIP 3A4, you must create a contract to initiate PIP 3A4 and one to respond to PIP 3A4.
 - ◆ For RosettaNet-specific services to build and parse message, promote security, and send outbound RosettaNet messages to the appropriate URLs.

For more information about:

- ◆ RosettaNet solution for Gentran Integration Suite, see the Sterling Commerce Customer Support Web site at www.sterlingcommerce.com/customer/tech_support.html.
The Web site provides access to Support on Demand, which enables you to download the Gentran Integration Suite RosettaNet Implementation white paper. This white paper also describes the framework, business processes (BPML), and RosettaNet-specific services used to implement RosettaNet in Gentran Integration Suite.
- ◆ RosettaNet concepts and development, see the RosettaNet Web site at www.rosettanet.org.

Before You Begin

Before you set up a RosettaNet trading profile and to simplify the tasks you must perform, collect and prepare the following information about your organization and trading partners:

- ◆ Trading partner name and address information, including:
 - ◆ DUNS numbers
 - ◆ Contact information, such as addresses, telephone numbers, e-mail addresses
- ◆ PIP information, including:

- ◆ PIP code and PIP version to exchange
- ◆ RNIF (RosettaNet Implementation Framework) version (either v1.1 or v02.00)
- ◆ Roles of trading partners using each PIP (that is, the trading partners who is initiating and the trading partner who is responding).
- ◆ RNIF version information (only RNIF v02.00 is supported).
- ◆ Transport information, including:
 - ◆ HTTP URLs
 - ◆ CA certificates for trading partner if using SSL
- ◆ Security information, digital signatures, and encryption and certificates (for example, certificates used to encrypt and decrypt).
- ◆ If you are using digital certificates, check in the appropriate certificate.

Setting Up RosettaNet Trading Profiles

When setting up trading profiles in, you must perform the following tasks:

1. Create an identity record for your organization, indicating your organization as the base identity.
2. Create an identity record for each of your trading partners.
3. Create the following records in order to complete the trading profiles for your organization and each of your trading partners:
 - ◆ Transport
 - ◆ Document exchange
 - ◆ Delivery channel
 - ◆ Packaging (only one necessary for each trading relationship, not for each, individual trading partner)
 - ◆ Profile

Creating an Identity Record for Your Organization

When setting up your trading profile, consider that your organization is the base identity.

To create an identity record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Identities**.
2. Next to Create New Identity, click **Go!**
3. In the Base Identity page, for Select Base Identity, verify that **No Base Identities Available** is selected, and click **Next**.

4. In the Information page, complete the following fields and click **Next**:

Field	Description
Name	Name of your organization. Required.
Reference URL	Internet address of your organization. Optional.
DUNS	Unique 9-13 character identification number of your organization, as issued by Dun & Bradstreet Corporation. Required.
Identifier	Primary ID of your organization. Use DUNS number. Required.
Address Line 1	Conventional mailing address of your organization. Required.
Address Line 2	Additional mailing address information of your organization. Optional.
City	City where your organization is located. Required.
State or Province	State or province where your organization is located. Required.
Zip or Postal Code	ZIP Code or postal code where your organization is located. Required.
E-mail Address	E-mail address of your organization. Required.
Telephone Number	Telephone number of your organization. Required.
Time Zone	Time zone where your organization is located. Optional.
Country	Country where your organizations located. Optional.

5. Click **Finish** to add the identity.

Creating an Identity Record for Your Trading Partner

For each RosettaNet trading partner, you must create an identity record.

To set up an identity record for your trading partner:

1. From the **Trading Partner** menu, select **Setup > Advanced > Identities**.
2. Next to Create New Identity, click **Go!**
3. In the Base Identity page, for Select Base Identity, select the name of the identity record that you created for your organization, and click **Next**.
4. In the Information page, complete the following fields and click **Next**:

Field	Description
Name	Name of your RosettaNet trading partner. Required.
Reference URL	Internet address of your RosettaNet trading partner. Optional.
DUNS	Unique 9-13 character identification your RosettaNet trading partner number, as issued by Dun & Bradstreet Corporation. Required.

Field	Description
Identifier	Primary ID of your RosettaNet trading partner. Use DUNS number. Required.
Address Line 1	Conventional mailing address of your RosettaNet trading partner. Required.
Address Line 2	Additional mailing address information of your RosettaNet trading partner. Optional.
City	City where your RosettaNet trading partner is located. Required.
State or Province	State or province where your RosettaNet trading partner is located. Required.
Zip or Postal Code	ZIP Code or postal code where your RosettaNet trading partner is located. Required.
E-mail Address	E-mail address of your RosettaNet trading partner. Required.
Telephone Number	Telephone number of your RosettaNet trading partner. Required.
Time Zone	Time zone where your RosettaNet trading partner is located. Optional.
Country	Country where your RosettaNet trading partner is located. Optional.

5. Click **Finish** to add the identity of this trading partner.

You are now ready to create a transport record for this RosettaNet trading partner.

Creating a Transport Record

To define how to send a RosettaNet message using HTTP, you must create a transport record.

To create a transport record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Transports**.
2. Next to Create New Transport, click **Go!**
3. In the Information page, complete the following fields and click **Next**:

Field	Description
Name	Name for the transport record to create for this RosettaNet trading partner. Required. Note: You should use part of a company name or DUNS in this field and an indicator that references RosettaNet.
Identity	Unique ID used when you created an identity record for this RosettaNet trading partner. Required.

4. In the Communications page, complete the following fields and click **Next**:

Field	Description
Receiving Protocol	Communications protocol supported by this transport record when receiving data. Select HTTP. Required.

Field	Description
Sending Protocol	Communications protocol supported by this transport when sending data. Select HTTP. Required.
End Point IP	Leave this field blank.
End Point Port	Leave this field blank.

5. In the End Point Settings page, complete the following fields and click **Next**:

Field	Description
End Point	Destination URL for this trading partner. Required. Note: If using SSL, verify use of the following URL format: http://host:port/continued URL .
End Point Type	Purpose of this end point. Select All Purpose. Required.

6. In the Protocol Settings page, complete the following fields and click **Next**:

Field	Description
Response Timeout (seconds)	Number of seconds to wait for remote response to an outbound queue. Type the value 600 in this field. Required.
Firewall Proxy	IP address, port number, login ID, and password of the remote firewall represented in URL format where commas separate values (for example, <host>, <port>). If used, you may need to specify both a login ID and a password. Used for outbound sessions. Optional.
Firewall Connect Count (seconds)	Number of seconds that Gentran Integration Suite attempts to contact port address of the transport before timing out. Optional.
Socket Timeout (seconds)	Number of seconds to wait for remote response to a command. Type the value 600 in this field. Required.

7. In the Security page, complete the following fields and click **Next**:

Field	Description
SMIME Encryption User Certificate	Certificate used to encrypt RosettaNet messages that are sent outbound through this transport record. This certificate has no impact in RosettaNet messages being received through this transport. Therefore, if this transport is for the company running Gentran Integration Suite, leave this field blank. If this transport is for your RosettaNet trading partner, choose the Trusted encryption certificate from the trading partner that you previously checked in. Required.
SSL	Whether Secure Sockets Layer (SSL) must be active. Select Must to enable this transport to use this protocol with a key certificate. This field is used in conjunction with the key certificate field. If not using a key certificate, select None. Required.

Field	Description
Key Certificate Passphrase	Password that protects the Web server key certificate. Required if SSL option is anything other than None.
Cipher Strength	Strength of the algorithms used to encrypt messages. Select Strong to indicate strength of algorithms with a key certificate. This field is used in conjunction with the key certificate field. If not using a key certificate, select All or Weak. Required.
Key Certificate (System Store)	Certificate used to decrypt an inbound encrypted RNIF v2.0 message sent to the identity associated with this transport (RNIF 1.1 does not support encryption). The trading partner encrypts the message with the public key and the receiver decrypts the message with this private key certificate. If using a key certificate, select the appropriate key certificate from the list. Otherwise, leave this field blank.
CA Certificates	Certificate used to verify the Web server certificate of a trading partner. These certificates must come from your RosettaNet trading partners and you must have previously checked them in. Required if the SSL option is Must or Optional.

8. In the Protocol Mode page, complete the following fields and click **Next**:

Field	Description
Protocol Mode	Use the default value PUT. Required.
Document	Leave this field blank.

9. In the Transport Account page, complete the following fields and click **Next**:

Field	Description
User ID	Unique ID that associates this transport with the remote system of your RosettaNet trading partner. Optional.
Password	Password that authenticates the user ID to the remote system of your RosettaNet trading partner. Optional.
Confirm Password	Password typed in the Password field. Optional.

10. Click **Finish** to update the transport record.

You are now ready to create a document exchange record.

Creating a Document Exchange Record

To describe properties of the documents and messages passed between you and your RosettaNet trading partner, you must create a document exchange record.

To create a document exchange record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Document Exchange**.
2. Next to Create New Document Exchange, click **Go!**

3. In the New Document Exchange: Information page, complete the following fields and click **Next**:

Field	Description
Name	Name for the document exchange to create for this RosettaNet trading partner. Required. Note: You should use part of the company name or DUNS number in this field.
Identity	Unique ID used when you created an identity record for this RosettaNet trading partner. Required.

4. In the Retry Settings page, complete the following fields and click **Next**:

Field	Description
Number of Retries	Number of times that Gentrans Integration Suite tries to contact this RosettaNet trading partner before timing out. Type the value 3 in this field. Required.
Retry Interval (sec)	Number of seconds that Gentrans Integration Suite waits before trying again to contact this RosettaNet trading partner after the previous attempt timed out. Type the value 3000 in this field. Required.
Persist Duration (sec)	Number of seconds that a message received is kept before being passed to the integration engine. Type the value 10000 in this field. Required.

5. In the Enveloping Properties page, complete the following field and click **Next**:

Field	Description
Protocol	The security protocol to be used. If using digital signatures to exchange RosettaNet messages, select SMIME from this field. Otherwise, select None. Required.

6. Skip this step if you are not using digital signatures to exchange RosettaNet messages. Otherwise, in the Security page, complete the following fields and click **Next**:

Field	Description
Encryption Algorithm	Algorithm used to encrypt outbound RNIF v02.00 messages. Not used for inbound and RNIF v1.1. Required if this document exchange is for the trading partner running Gentrans Integration Suite and sending encrypted RNIF v02.00 messages to a trading partner. Supported algorithms are: <ul style="list-style-type: none"> ◆ Triple DES 168 CBC with PKCS5 padding ◆ 56-bit DES CBC with PKCS5 padding ◆ 128-bit RC2 CBC with PKCS5 padding ◆ 40-bit RC2 CBC with PKCS5 padding

Field	Description
Signing Algorithm	<p>Algorithm used to sign outgoing RosettaNet messages. Required if this document exchange is for the trading partner running Gentran Integration Suite. Otherwise, use the default value.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ◆ MD5 – Message digest algorithm that verifies the integrity of data through a 128-bit message digest. ◆ SHA1 – Secure hash algorithm that verifies the integrity of data through a 160-bit (20 byte) message digest. Transmission is a bit slower than MD5; however, the larger message digest size offers a more secure data transference.
Signing Key Certificate	<p>Key certificate used to sign outgoing RosettaNet messages. This certificate is a system certificate created for the trading partner running Gentran Integration Suite and it contains a private key. Select the appropriate key certificate from this field. If this document exchange is used for a trading partner other than the one running Gentran Integration Suite, use the default value.</p>
Signing User Certificate	<p>Trusted certificate that contains the public key used to verify incoming digital signatures from a trading partner. If using this document exchange for a trading partner other than the one running Gentran Integration Suite, verify that None Available is selected from this field. Otherwise, select the appropriate trusted certificate from this field.</p>

7. Click **Finish** to add the document exchange record.

You are now ready to create a delivery channel.

Creating a Delivery Channel Record

You can define several delivery channels in one trading profile.

To create a delivery channel record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Delivery Channels**.
2. Next to Create New Delivery Channel, click **Go!**
3. In the Information page, complete the following fields and click **Next**:

Field	Description
Name	<p>Name for the delivery channel record to create for this RosettaNet trading partner. Required.</p> <p>Note: You should use part of a company name or DUNS in this field or use an indicator that references RosettaNet.</p>
Identity	<p>Unique ID used when you created an identity record for this RosettaNet trading partner. Required.</p>

4. In the Channel Definition page, complete the following fields and click **Next**:

Field	Description
Transport	Name of the transport record you created for this RosettaNet trading partner. This name must match the Name field of the transport record. Required.
Document Exchange	Name of the document exchange you created for this RosettaNet trading partner. This name must match the Name field of the document exchange record. Required.

5. The fields in the Security page are not used to implement RosettaNet. Therefore, click **Next** to skip this page.
6. In the Delivery Settings page, complete the following fields and click **Next**:

Field	Description
Receipt Type	Not used to implement RosettaNet. Use the default value NONE. Required.
Receipt Signature Type	Not used to implement RosettaNet. Use the default value NONE. Required.
Receipt Timeout	Time-out value for receipt of expected MDNs, in seconds. Type the value 86400 in this field. Required.
Delivery Mode	Select Asynchronous HTTP from this field. Required.
Receipt to Address	Not used to implement RosettaNet in. Leave this field blank.

7. Click **Finish** to add the document channel record.

You are now ready to create a packaging record.

Creating a Packaging Record

To define how to build and package outbound messages to your RosettaNet trading partner, you must create a packaging record.

To create a packaging record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Packaging**.
2. Next to Create New Packaging, click **Go!**
3. In the Information page, complete the following fields and click **Next**:

Field	Description
Name	Name for the packaging record to create for this RosettaNet trading partner. Required. Note: You should use part of a company name or DUNS in this field or use an indicator that references RosettaNet.
Message Parsable	Whether the message can be parsed. Verify that No is selected from this field. Required.

4. In the Packaging Settings page, complete the following fields and click **Next**:

Field	Description
Payload Type	<p>Payload type that describes the message format for transporting documents. Required.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ◆ Plain Text – Payload is not signed and it is not encrypted. ◆ Signed Detached – Payload is signed with a detached signature for RNIF v1.1 and v02.00 messages. ◆ Encrypted – Payload is encrypted according to the EDIINT specifications. ◆ Signed Detached Encrypted – Payload is signed with a detached signature and then encrypted for RNIF v02.00 messages.
MIME Type	Select Application from this field. Required.
MIME Sub Type	Select XML from this field. Required.
Compress Data	<p>Whether to compress inbound and outbound messages, according to the ability of each trading partner to decompress and extract messages. Required.</p> <p>Valid values (specific to RosettaNet v02.00 and higher) are:</p> <ul style="list-style-type: none"> ◆ None – Do not compress messages ◆ High – Compress all messages <p>Note: When specifying a value in this field, considered that the value applies to all inbound and outbound messages, regardless of the message sizes. If you choose to specify the value None and you encounter a large inbound or outbound message that you want to compress, you can return to this packaging record and edit the record, specifying High in this field.</p>

5. Click **Finish** to add the packaging record.

You are now ready to create a profile record.

Creating a Profile Record

To define the roles (that is, initiator or responder of data exchange) of each trading partner exchanging RosettaNet data and create business processes that comply with RosettaNet standards, you must create a profile.

To create a profile record:

1. From the **Trading Partner** menu, select **Setup > Advanced > Profiles**.
2. Next to Create New Profile, click **Go!**

3. On the Information page, complete the following fields and click **Next**:

Field	Description
Name	Name for the profile record to create for this RosettaNet trading partner. Required. Note: You should use part of a company name or DUNS in this field or use an indicator that references RosettaNet.
Identity	Unique ID used when you created an identity record for this RosettaNet trading partner. Required.

4. On the Profile Definition page, complete the following fields and click **Next**:

Field	Description
Profile Type	Type of profile that must be used for data exchanged for this RosettaNet trading profile. Select RN from this field. Required.
GLN	Not used to implement RosettaNet. Leave this field blank.
Delivery Channel	Name of the delivery channel you created for this RosettaNet trading partner. This name must match the Name field of the delivery channel record. Required.
Packaging	Name of the packaging you created for this RosettaNet trading partner. This name must match the Name field of the packaging record. Required.
Provider	Third-party service provider name. Type rosettanet (using lowercase letters) in this field. Required.

5. On the RN Data page, complete the following fields and click **Next**:

Field	Description
Role	Role of this RosettaNet trading partner. Optional. Valid values are: <ul style="list-style-type: none"> ◆ Responder – Receiving RosettaNet data ◆ Initiator – Sending RosettaNet data
RNIF Version	Version of RosettaNet Implementation Framework (RNIF) being used by this RosettaNet trading partner. Select All from this field. Required.
Location Code	Location code for this RosettaNet trading partner. Typically, the code is the city of the trading partner. Used to fill in locationID, under messageSenderIdentification and inside the outbound delivery header. Required for RNIF v1.1. Optional for RNIF v02.00.
Partner Location Code	Location code for this RosettaNet trading partner. Used to fill in the locationID, under messageReceiverIdentification and inside the outbound deliver header. Required for RNIF v1.1. Optional for RNIF v02.00.
Classification Code	RosettaNet classification code. Required.
Supply Chain Code	RosettaNet supply chain code. Required.

Field	Description
Contact	RosettaNet trading partner contact information. Required.

- The fields in the Business Processes page are not used to implement RosettaNet. Therefore, click **Next** to skip this page.
- Click **Finish** to add the profile record.

You have now finished creating trading profiles and can create the appropriate contracts.

Creating RosettaNet Contracts

Contracts enable you to tie RosettaNet trading partners together to create an effective trading relationship. To enable Gentran Integration Suite to comply with RosettaNet PIP specifications when running business processes, and to enable RosettaNet-specific services to build and parse message, promote security, and send and receive outbound RosettaNet messages to the appropriate URLs (for example, RosettaNet Message Builder and RosettaNet Message Parser services), you must create a contract that distinguishes each PIP interaction involved in a business process. You can create the contracts in either order.

To create a contract:

- From the Administration menu, select **Trading Partner > Contracts**.
- Under Create, next to New Contract, click **Go!**
- On the Information page, complete the following fields and click **Next**:

Field	Description
Name	<p>Descriptive name for the contract. Required.</p> <p>You should use part of a company name, an indicator that references whether this trading partner is the initiator or responder, or the type of PIP being used. For example:</p> <ul style="list-style-type: none"> ◆ If this contract is for your organization and considered the initiator sending data, type FromCompanyToTradingPartner_PIP3A4. ◆ If this contract is for your RosettaNet trading partner and considered responding to data sent, type ToTradingPartnerFromCompany_PIP3A4.
Start Date	Start date and time of the contract. Valid value is any valid date in the format <i>yyyy-mm-dd</i> . Must be less than or equal to End Date. Default value is the current date. Required.
End Date	Expiration date and time of the contract. Valid value is any valid date in the format <i>yyyy-mm-dd</i> . Must be greater than or equal to Start Date. Default value is the current date. Required.

Field	Description
Status	<p>State of the composition/negotiation process that creates the contract. Default value is SIGNED. Required.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ◆ PROPOSED – Contract being negotiated by the parties. The first stage of negotiation. ◆ AGREED – Contract agreed upon by the parties. The next stage of negotiation. ◆ SIGNED – Contract signed by the parties. The final stage of negotiation. The contract is usable.

4. On the Contract Definition page, complete the following fields and click **Next**:

Field	Description
Production Profile	Unique ID of the profile for the RosettaNet trading partner producing (or sending) the data. This name must match the Name field used when creating the identity record. Required.
Consumption Profile	Unique ID of the profile for the RosettaNet trading partner consuming (or receiving) the data. This name must match the Name field used when creating the identity record. Required.
Business Process	Not used to implement RosettaNet. Not Applicable should be selected.

5. On the Extensions page, select **RN** and click **Next**.

6. You must specify RN extensions if you are creating two PIP contracts. For example, if the company is initiating and responding to PIP 3A4, you must create a contract to initiate PIP 3A4 and one to respond to PIP 3A4.

On the RN Extensions page, complete the following fields and click **Next**:

Field	Description
PIP Code	RosettaNet PIP settings used by the RosettaNet business processes. Select the appropriate code from the list. Required.
PIP Version	Version of PIP to trade. Valid values are listed, based on the PIP code selected. Required.
RNIF Version	<p>RNIF version number to trade with your RosettaNet trading partner. Required.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ◆ 1.1 ◆ V02.00
PIP Role	PIP role for company that uses Gentran Integration Suite and is trading this PIP. Valid values are listed, based on the PIP code selected. Required.
Global Usage Code	Use this contract in either test or production. Required.

7. On the RosettaNet Message Building Configuration page, complete the following fields and click **Next**:

Note: Message building options are only available if you select RNIF Version V02.00 on the RN Extensions page. These options are not available for RNIF version 1.1.

Field	Description
Content Transfer Encoding	Encoding method for the message. Required. Valid values are: <ul style="list-style-type: none"> ◆ None ◆ Base64 ◆ Quoted - Printable
Encode binary message parts only	Select to encode binary message parts only. If not selected, all message parts are encoded. Optional.
Include MIME version header	Select to include the MIME version in the HTTP header. If not selected, no MIME version information is included. Optional.

8. On the PIP Definition page, complete the following fields and click **Next**:

Caution: You should select a Sender Business Process and Responder Business Process only on this page and accept all other default values, which are based on RosettaNet PIP standards. No additional changes need to be made to these fields unless you require customization.

Field	Description
Sender Business Process	PIP private initiating process for the sender business process. Select the appropriate business process from the list. Required.
Responder Business Process	PIP private responding process for the responder business process. Select the appropriate business process from the list. Required.
Response Mode	Mode in which to respond to a PIP. Required. Valid values are: <ul style="list-style-type: none"> ◆ Synch – Synchronously ◆ Asynch – Asynchronously
Non-Repudiation Required?	Receiving trading partner cannot deny having received a message. To disable this feature, clear the check box. Optional.
Time to Acknowledge	Amount of time, in minutes, within which you must receive an acknowledgment. Valid value is four numeric characters. Optional.
Time to Acknowledge Acceptance	Amount of time, in minutes, within which you must accept an acknowledgment. Optional.
Time to Perform	Time in which the PIP private responding process should respond to the business process. Optional.
Retry Count	Gentran Integration Suite continues to retry contacting the trading partner for the specified number of times. Optional.

Field	Description
Is Authorization Required?	Instructs Gentran Integration Suite to verify the presence of appropriate contracts for this transaction, to ensure that your trading partner is authorized to send the message to you. This feature is automatically enabled and cannot be disabled.
Non-Repudiation of Origin and Content	Originating trading partner can not deny having originated and sent a message. To disable this feature, clear the check box. Optional.

9. On the PIP Steps page, review the steps you have selected to run using the PIP and click **Next**.
10. Click **Finish** to add the contract. Repeat steps 1 - 10 to create a contract for the trading partner who is either initiating and responding to a PIP, if necessary.

Validating RosettaNet Service Content Against a DTD or Schema

Gentran Integration Suite now supports validating RosettaNet service content against either a DTD or an XML schema, since many new PIPs are XML schema-based. Prior to this enhancement, Gentran Integration Suite validated against DTDs *only*.

Note: You must check the schemas that you will use for validation into the Gentran Integration Suite schema repository. See *Checking In Schemas* for more details.

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