Sterling Integrator®

Odette FTP Partner Profile
Version 5.1

Sterling Commerce
An IBM Company

Contents

Odette FTP Partner Profile

The Odette FTP Partner Profile defines all partner-specific configuration parameters required to build a model of the Odette FTP communication links between your organization and your Odette FTP partners. The elements of the Odette FTP Partner Profile are:

• Physical Partner
• Physical Partner Contract
• Logical Partner
• Logical Partner Contract

Physical Partner

A physical partner describes general communication link parameters such as the OFTP User ID and OFTP Password, which are used to establish an OFTP session (OFTP command `Start Session`, SSID).

In addition to the general OFTP parameters, a Physical Partner describes communication-specific parameters:

Communication Mode	Description
CAPI	Uses ISDN telephone line. Specify the ISDN telephone number or address in addition to the ISDN-specific parameters.
IP	Uses TCP/IP network. Specify the IP address or the server name (hostname) and the IP port in addition to the IP-specific parameters.

Note: If you want to set up communication for both ISDN and IP, you have to create two different Physical Partner Profiles.

The Physical Partner describes communication parameters about you (Local Physical Partner) or your OFTP Partner (Remote Physical Partner). The Physical Partner Contract determines the role of the Physical Partners in a communication scenario.

Physical Partner Contract

A Physical Partner Contract defines the OFTP communication link between a local Physical Partner and a remote Physical Partner identified by the Physical Partner Names. OFTP communication parameters have to be defined in a bilateral agreement between you and your OFTP partner. The parameters can be automatically negotiated between you and your partner during establishing an OFTP session, such as the Odette API Level or the OFTP Exchange Buffer Size. Both Local and Remote Physical Partners must use the same communication mode (IP or CAPI).

Local and Remote Physical Partner must not be identical. If you want to create a loopback scenario where local and remote partners reside on the same system, create two different Physical Partner Contracts with crossed Local and Remote Physical Partner names.

Logical Partner

A Logical Partner is the logical end-point of the communication. Think of it as a department within your organization or within the organization of your OFTP partner. In addition to other parameters, the Logical Partner contains the Odette Code (Odette Name), which uniquely identifies your OFTP communication partner.

Logical Partner Contract

The Logical Partner Contract is the top-level entry point, which references the following Partner Profile elements:

• Originator Logical Partner
• Destination Logical Partner
• Inbound Physical Partner Contract
• Outbound Physical Partner Contract

The Originator and Destination Logical Partners define the logical end-points of the communication scenario. The following are examples of communication scenarios:

• If your organization wants to send messages, you must specify an Outbound Physical Partner Contract.
• If your organization wants to receive messages from a remote partner, you must specify an Inbound Physical Partner Contract.
• If your organization receives data from an OFTP remote partner but you are not the end-point of the communication, you must forward the message to a second remote partner. In this case, you have to specify both an Inbound and an Outbound Physical Partner Contract in the Logical Partner Contract. If your organization wants to send messages to a remote partner and receive messages from the same remote partner, you must use two Logical Partner Contracts. For sending messages, use an outbound Physical Partner Contract and for receiving messages, use the second Logical Partner Contract where Originator and Destination Logical Partner exchange their roles.

Managing Odette FTP Partner Profile in Sterling Integrator

You can list, search, create, and edit the Odette FTP Partner Profile elements in Sterling Integrator. You can manage the following Odette FTP Partner Profile elements from the Sterling Integrator Administration menu, by selecting **Trading Partner** > **Odette FTP Partner Profile**:

• Odette FTP Physical Partner
• Odette FTP Physical Partner Contract
• Odette FTP Logical Partner
• Odette FTP Logical Partner Contract

Use the Sterling Integrator maintenance window to make changes to the Partner Profile. Verify that no business processes are active, which call the Odette FTP adapter.

Note: All changes in the configuration of the Odette Partner Profile database become active immediately after saving the changes with the Odette Partner Profile User Interface or mass importing/updating/deleting Partner Profiles from the command line tool `OFTPPartnerManager.sh` (for UNIX), or `OFTPPartnerManager.cmd` (for Windows).

It is strongly recommended that you test an OFTP Partner Configuration in a test environment before using it in a production system.

Create a Physical Partner using CAPI Mode

To create a Physical Partner entry as part of the partner profile using the CAPI mode in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile** > **Odette FTP Physical Partner**.
2. Click **Go!** next to Create Odette FTP Physical Partner.
3. In the Physical Partner page, complete the following fields and click **Next**:

Field Name	Description
Physical Partner Name	Required. Unique name for the Physical Partner.

Field Name	Description
Description	Required. Textual description of the Physical Partner.
OFTP User Id	Required. The OFTP ID used in the SSID command. Must be defined in the bilateral agreement with your partner.
OFTP User Password	Required. The OFTP password used in the SSID command. Must be defined in the bilateral agreement with your partner. In the Sterling Integrator User Interface, the password is encrypted automatically when the profile is saved.
Mailbox User	Optional. User name in the Sterling Integrator Mailbox system. The value of this field determines whether the Mailbox Mode is used or not. It is recommended to use the Mailbox Mode. Select [None] if you do not want to use the Sterling Integrator Mailbox System. If [None] is selected, the following fields are disabled: • Submailbox • Extractability Type • Extractability Value Select a Sterling Integrator user, which is tied to a Mailbox in a Mailbox Virtual Root to use the Mailbox Mode. **Note:** Sterling Integrator Mailbox System requires a separate license.
Submailbox	Required for Mailbox Mode. Default messages received from your Remote Partner B on your local system (Local Partner A) are saved in the virtual root of Partner Mailbox B (created on the local System A). To make message routing simpler, you can specify a submailbox name in the Remote Physical Partner of system A so that inbound messages from Partner B are placed in a submailbox <*name*> of local Partner Mailbox B.
Extractability Type	Required for Mailbox Mode. The Mailbox Extractability Type defines the following ways to extract messages from Partner Mailboxes: • Extractable, unlimited (Yes/No). Either extraction of messages is forbidden (No) or allowed (Yes) without limitation. • Extractable Count (number). Extraction of messages is allowed <*Count*> times. • Extractable Until (YYMMTTHHmmss). Extraction of messages is allowed until a specified data/time stamp.
Extractability Value	Required for Mailbox Mode. The value for the extractability type selected in the Extractability Type field. The default value is Yes. Leave blank if the message cannot be extracted. Depending on the selection in Mailbox Extractability Type, specify an Extractability Value as follows: • No = Extraction of messages is forbidden

Field Name	Description
	• Yes = Extraction of messages is allowed without limitation
Session Retry Intervals	Optional. Comma separated list of numbers that indicate the time interval when a subsequent session will retry, if there was a failure.
SSID User Field	Optional. Defined in your bilateral agreement.
Authorization Private Key	Required, if you select Secure Authentication check box of Secure Authentication in Physical Partner Contract. Available for Odette API Level 2.0 and higher.
CAPI Mode	Select CAPI Mode if you want a communication link over an ISDN telephone line. You need an ISDN router hardware with Remote CAPI (Brick).

4. In the Authentication Certificates page, use the arrows to move the certificates in the Available Certificates list to the Selected Certificates list. You can select one or more Authentication Certificate. Available for Odette API Level 2.0 and higher.

5. Click **Next**.

6. In the CAPI Parameters page, complete the following fields and click **Next**:

Field Name	Description
Address	Required. The telephone number that either you or your partner calls.
Sub Address	Optional. Additional address part.
Alternative Addresses	Optional. Comma separated list of alternative addresses (telephone numbers). List of alternative addresses (in case of a remote physical partner).
B3 Channel Configuration	Optional. Comma separated list of B3 channel configuration parameters containing six integer values in the following order: • LIC - Lowest incoming channel. Default is 0. • HIC - Highest incoming channel. Default is 0. • LTC - Lowest two-way channel. Default is 1. • HTC - Highest two-way channel. Default is 1. • LOC - Lowest outgoing channel. Default is 0. • HOC - Highest outgoing channel. Default is 0.
B Window Size	Optional. Transmit and receive window size for B -Channel. Default is 7.
Call User Data	Optional. X.25 parameters, entered as HEX String. Default is 0.
Facilities	Optional. X.25 parameters, entered as HEX String. Default is 0.
Local NUA	Optional. Local X.121 address used to call.

Field Name	Description
Remote NUA	Optional. Remote X.121 address used to call.
Modulo	Send and Receive sequence number counter in X.25 packet. Valid values are: • 8 - normal operation (default) • 128 - extended operation

7. Review the profile settings in the Confirm page.
8. Click **Finish**.

Create a Physical Partner using IP Mode

To create a Physical Partner entry as part of the partner profile using the IP mode in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile** > **Odette FTP Physical Partner**.
2. Click **Go!** next to Create Odette FTP Physical Partner.
3. In the Physical Partner page, complete the following fields and click **Next**:

Field Name	Description
Physical Partner Name	Required. Unique name for the Physical Partner.
Description	Required. Textual description of the Physical Partner.
OFTP User Id	Required. The OFTP ID used in the SSID command. Must be defined in the bilateral agreement with your partner.
OFTP User Password	Required. The OFTP password used in the SSID command. Must be defined in the bilateral agreement with your partner. In the Sterling Integrator User Interface, the password is encrypted automatically when the profile is saved.
Mailbox User	Optional. User name in the Sterling Integrator Mailbox system. The value of this field determines whether the Mailbox Mode is used or not. It is recommended to use the Mailbox Mode. Select [None] if you do not want to use the Sterling Integrator Mailbox System. If [None] is selected, the following fields are disabled: • Submailbox • Extractability Type • Extractability Value Select a Sterling Integrator user, which is tied to a Mailbox in a Mailbox Virtual Root to use the Mailbox Mode.

Field Name	Description
	Note: Sterling Integrator Mailbox System requires a separate license.
Submailbox	Required for Mailbox Mode.
	Default messages received from your Remote Partner B on your local system (Local Partner A) are saved in the virtual root of Partner Mailbox B (created on the local System A).
	To make message routing simpler, you can specify a submailbox name in the Remote Physical Partner of system A so that inbound messages from Partner B are placed in a submailbox <*name*> of local Partner Mailbox B.
Extractability Type	Required for Mailbox Mode.
	The Mailbox Extractability Type defines the following ways to extract messages from Partner Mailboxes:
	• Extractable, unlimited (Yes/No). Either extraction of messages is forbidden (No) or allowed (Yes) without limitation.
	• Extractable Count (number). Extraction of messages is allowed <*Count*> times.
	• Extractable Until (YYMMTTHHmmss). Extraction of messages is allowed until a specified data/time stamp.
Extractability Value	Required for Mailbox Mode. The value for the extractability type selected in the Extractability Type field. The default value is Yes.
	Leave blank if the message cannot be extracted.
	Depending on the selection in Mailbox Extractability Type, specify an Extractability Value as follows:
	• No = Extraction of messages is forbidden
	• Yes = Extraction of messages is allowed without limitation.
Session Retry Intervals	Optional. Comma separated list of numbers that indicate the time interval when a subsequent session will retry, if there was a failure.
SSID User Field	Optional. Defined in your bilateral agreement.
Authorization Private Key	Required, if you select Secure Authentication check box of Secure Authentication in Physical Partner Contract. Available for Odette API Level 2.0 and higher.
IP Mode	Select IP Mode if you want a communication link over a TCP/IP socket connection using Sterling Integrator Perimeter Service.

4. In the Authentication Certificates page, use the arrows to move the certificates in the Available Certificates list to the Selected Certificates list. You can select one or more Authentication Certificate. Available for Odette API Level 2.0 and higher.

5. Click **Next**.

6. In the IP Parameters page, complete the following fields and click **Next**:

Field Name	Description
Hostname	Required. Name or IP address of the remote host.
IP Filter List	Positive list of IPv4 or IPv6 addresses.
IP Port	Required. Additional address information. Valid values are: • Secure Server Port: 6619 (odette-ftps) • Insecure Server Port: 3305 (odette-ftp) (Default)
SSL Enabled	By default, SSL is disabled. Available for OFTP Version 2.0 and higher. If you enable SSL, then OFTP Session Level Encryption (TLS/SSL) is enabled and the following fields must be configured: • Cipher Strength • SSL Private Key • SSL Certificates
Cipher Strength	Default is Strong. When SSL is selected, valid values are: • All • Weak • Strong
SSL Private Key	OFTP 2.0 and higher. Select SSL Private key, if SSL is enabled.

7. This step is applicable if SSL is enabled and if you are using OFTP 2.0 or higher. In the SSL Certificates page, use the arrows to move the certificates in the Available SSL Certificates list to the Selected SSL Certificates list. For more information about SSL, see *Implement SSL* on the Sterling Integrator online documentation library.

8. Click **Next**.

9. Review the profile settings in the Confirm page.

10. Click **Finish**.

Create a Physical Partner Contract

A physical partner can be used in a physical partner contract either as a local or as a remote physical partner. A physical partner cannot be both a local and a remote physical partner in two different physical partner contracts. For example, one contract uses partner A as a remote partner and another contract uses partner A as a local partner. In such a scenario, you must duplicate the physical partner definition and rename it (that is, A_local and A_remote). If a physical partner B acts as a Forwarder (partner in the middle) between the physical partners A and C, the two physical partner contracts must contain B as a local physical partner.

To create a Physical Partner contract in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile** > **Odette FTP Physical Partner Contract**.

2. Click **Go!** next to Create Odette FTP Physical Partner Contract.
3. In the PPC - Part I page, complete the following fields and click **Next**:

Field Name	Description
Physical Partner Contract Name	Required. Unique name for the Physical Partner Contract.
Description	Required. Description of the Physical Partner Contract.
Local Physical Partner	Required. Reference to the local physical partner (reference by name). Local and Remote Physical Partners must use the same communication type.
Remote Physical Partner	Required. Reference to the remote physical partner (reference by name). Local and Remote Physical Partner must use the same communication type.
Odette FTP API Level	Required. OFTP version. Valid values are: • 1.2 • 1.3 • 1.4 • 2.0 To use secure authentication or file compression, encryption, and signing, you must select 2.0.
Accept SFID for non-existing Logical Partner Contract	Optional. Specify whether Start Field Identifiers (SFIDs) are accepted for nonexistent LPC. Valid values are: • Select the check box to accept SFIDs for nonexistent LPC (default) • Clear the check box if you do not accept SFIDs for nonexistent LPC
Credit Window Size	Optional. The Credit Window Size defines the number of consecutive Data Exchange Buffers sent by the OFTP Speaker before it must wait for a Credit (CDT) command from the Listener. The credit value is applied to Data flow in the Data Transfer phase. The Speaker's available credit is initialized to Credit Window Size configured. After negotiation with the partner, the smallest size is selected in the answer of the Responder, otherwise an OFTP protocol error will abort the OFTP session. Negotiation of the credit-window-size parameter. <pre>Local Window Size m -- SSID ----->
<---- SSID -- Remote Window Size n (n less or equal
m)</pre>The negotiated value will be n. Maximum is 999. Default is 7.
Duplicate File Checking	Checking for duplicate files can be performed in the following check modes: • No - Do not check for duplicate files (default) • SFIDDSN+ADDR - Duplicate file checking is done using fields SFIDDSN, SFIDORIG, SFIDDEST • SFIDDSN+ADDR+DATE - Duplicate file checking is done using fields SFIDDSN, SFIDORIG, SFIDDEST, SFIDDATE and SFIDTIME

Field Name	Description
Duplicate File Period	Required, if Duplicate File Checking is selected and not set to No. Defines the period of time in days (from present to the past), which is used for searching duplicate files. Earlier duplicate files are ignored. Optional. Default is 7 days.
Secure Authentication	The Secure Authentication Protocol is available in OFTP Version 2.0 and higher and is either enabled or disabled in the OFTP SSID command depending on the Secure Authentication configuration.

4. In the PPC - Part II page, complete the following fields and click **Next**:

Field Name	Description
Exchange Buffer Size	Optional. Data buffer size used to transmit files. Default is 128. Minimum: 128, Maximum: 99999. The length, in octets (bytes), of the largest Exchange Data Buffer that can be accepted by the location. After negotiation with partner, the smallest size will be selected.
Session Log Level	Default is System Default Log Level for Odette FTP Adapter. The SessionLogLevel allows you to define a higher log level for this Physical Partner Contract than the default System Log Level of the Odette FTP Adapter. You can use this parameter for testing purposes. Valid values are: • ERROR • WARN • INFO • COMMTRACE • DEBUG • ALL
Group Name List	Optional. Comma separated list of Physical Partner Contract Group Names. PPC Groups allow the Sterling Integrator Scheduler / Odette FTP Scheduler Service to start an Initiator Business Process for each Physical Partner Contract in a PPC Group automatically. Each Initiator Business Process starts the Odette FTP Adapter, which searches for messages to send for the given Physical Partner Contract name. For more information about configuring the Sterling Integrator Scheduler for OFTP, see *OdetteFTP Scheduler and Sterling Integrator Scheduler* topic in *OdetteFTP Protocol Overview* in the Sterling Integrator online documentation library.
Send Receive Capabilities	Optional. The type of transmission possible from the local physical partner. Valid values are: • Send (can only send files) • Receive (can only receive file) • Send/Receive (can send and receive files - (default)
Compression Capabilities	Optional. Enable OFTP data compression mode for all file Types. Select this check box of compression will be used.

Field Name	Description
Multiple Login Sessions	Defines the number of permitted parallel inbound connections in the local system from the remote partner of this Physical Partner Contract. Default is 0 (unlimited).
Initiator Business Process	Required. Business process to initiate OFTP sessions for a specific Physical Partner Contract triggered by the Sterling Integrator Scheduler. Required, if you use the Sterling Integrator Scheduler / Odette FTP Scheduler to initiate OFTP sessions (recommended). Not required in Manual Mode. Business process to initiate OFTP sessions triggered by the specified schedules.
Business Process User	Required, if Initiator Business Process is specified. Sterling Integrator user starting this business process. Default is [None].

5. Review the profile settings in the Confirm page.
6. Click **Finish**.

Create a Logical Partner

To create a Logical Partner in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile** > **Odette FTP Logical Partner**.
2. Click **Go!** next to Create Odette FTP Logical Partner.
3. In the Logical Partner page, complete the following fields and click **Next**

Field Name	Description
Logical Partner Name	Required. Unique name for the Logical Partner.
Description	Required. Description of the Logical Partner.
Contact Person	Optional. Name of a contact person.
Odette Name	Required. OFTP identification.
File Service Private Key	Optional. File Services are available in OFTP Version 2.0 and higher. Select a File Service Private Key if you want to use e.g. OFTP file encryption, Signing using Cryptographic Message Syntax (CMS).

4. In the File Service Certificates page, use the arrows to move one or more File Service Certificates (for example, OFTP file encryption, Signing using Cryptographic Message Syntax (CMS)) from the Available Certificates list to the Selected Certificates list. Select a CA- or Trusted- certificate. For information on File Services, see *OFTP 2.0 specification* on *http://tools.ietf.org/html/rfc5024*.
5. Click **Next**.

6. Review the profile settings in the Confirm page.

7. Click **Finish**.

Create a Logical Partner Contract

To create a Logical Partner Contract in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile** > **Odette FTP Logical Partner Contract**.

2. Click **Go!** next to Create Odette FTP Logical Partner Contract.

3. In the LPC - Part I page, complete the following fields and click **Next**

Field Name	Description
Logical Partner Contract Name	Required.Unique name for the Logical Partner Contract.
Description	Required. Description of the Logical Partner Contract.
Destination Logical Partner	Required. Specifies the destination logical partner (referenced by name).
Originator Logical Partner	Required. Specifies the originator logical partner (referenced by name).
Inbound Physical Partner Contract	Either Inbound Physical Partner Contract or Outbound Physical Partner Contract is required.
	If you want to receive messages from your remote partner (Responder role) and the remote partner should call you, then specify an Inbound Physical Partner Contract. This implies that your Remote Partner initiates the OFTP Session, for example, for polling files in the Mailbox Inbox. After receiving files from your remote partner, you may optionally send back files to the remote partner after the OFTP Change Direction command in the same OFTP session.
	If you want to forward a message to Partner C (using outbound PPC) which you - Partner B - received from Remote Partner A (using Inbound PPC), then you have to specify both Inbound and Outbound Physical Partner Contracts.
Outbound Physical Partner Contract	Either Inbound Physical Partner Contract or Outbound Physical Partner Contract is required.
	If you want to send messages to your remote partner or poll the remote partner for files in the Mailbox Inbox (Initiator role), then specify an Outbound Physical Partner Contract. This means that you initiate the OFTP session with your remote OFTP partner, you may (optionally) send files in phase 1 and - after an OFTP Change Direction command - optionally receive files from your partner in phase 2 in the same session (if the remote partner has files to send for you).
	If you want to forward a message to Partner C (using outbound PPC) which you - Partner B - received from Remote Partner A (using Inbound PPC), then you have to specify both Inbound and Outbound Physical Partner Contracts.
Inbound Business Process	Optional. Select a business process that will be initiated when a message or EERP/NERP is received for this Logical Partner Contract. If [Not Applicable]

Field Name	Description
	is selected, then the business process configured in the adapter instance configuration is used.
Business Process User	Required, if Inbound Business Process is selected. Select a Sterling Integrator user used to execute the Inbound Business Process. Default is None.
Char Encoding	The selected character code will be used as property of the Primary Document or Mailbox Messages created for an inbound file.
OFTP File User Field	Optional. Defined in the bilateral agreement with your partner.

4. In the LPC - Part II page, complete the following fields and click **Next**:

Field Name	Description
Default OFTP Virtual Filename	Required. String specifying the default virtual filename. It is used in following cases: • If the message has been scheduled with the Odette FTP Queue Manager and no file name has been provided in the XML DataSet. It is recommended to provide virtual file names when scheduling files. • In Manual Mode, when the Odette FTP Adapter is called directly with an XML DataItem and no virtual file name has been provided. It is recommended to provide a file name when calling Odette FTP Adapter in Manual Mode. The Default OFTP Filename is overwritten by the File names provided in the XML DataItem Sets.
Receive Virtual Filename Pattern	Defines a character pattern in Regular Expression format, which is used to validate the Virtual File Name Pattern for inbound messages as follows. • If an inbound message arrives, the Odette FTP Adapter first searches for a matching Logical Partner Contract (without using the file name pattern). • If no Logical Partner Contract is found and if Accept SFID for non-existing Logical Partner Contract check box is selected, then the message is accepted. Otherwise, the message is rejected. • If exactly one Logical Partner Contract is found and the Receive Virtual Filename Pattern matches the inbound message virtual file name, the message is accepted. Otherwise, the message is rejected. If Receive Virtual Filename Pattern field is left empty or has a wildcard value "*", the message is always accepted. • If more than one Logical Partner Contract is found, then the Receive Virtual File Name Pattern is used to identify exactly one Logical Partner Contract from the list of Logical Partner Contracts. • If zero or more than one Logical Partner Contract matching (after performing file name pattern matching), then the message is rejected. In all other cases (exactly one Logical Partner Contract matches) the message is accepted. If this parameter is used, it is the responsibility of the user to make sure that the file name pattern uniquely identifies one Logical Partner Contract, for example, by using *<prefix>**. If more than one Logical Partner Contract file pattern is defined as wildcard (*), then the file pattern criteria will always leave

Field Name	Description
	the Logical Partner Contract decision ambiguous and the message will be rejected.
File Format	Optional. File format of the transmission file, for Outbound only. Valid values are: • Unstructured binary file (default) • Fixed format binary file • Variable format binary file • Text
Record Delimiter	Depending on the value of File Format, use one or two record delimiters that are decimal numbers of character code, for example, 13,10 for <CR> <LF> (Windows) or 10 for <LF> (UNIX). If the File Format is Unstructured binary file (U) or Text (T), data is not split up in records. Delimiters are not used. In the OFTP Partner Profile database, both Record Delimiters are set to (-1,-1). If the File Format is Variable format binary file (V), data is split up in records separated by one or optionally two record delimiters. If the File Format is Fixed Format binary file, data is split up in records of length <Record Length>. Specify one or two delimiters as decimal values. Specify -1,-1 to use default delimiter based on the operating system (13,10 for Windows and 10 for UNIX).
Record Length	Specifies number of retries for file transmissions. This field is used for outbound.
File Transmission Retries	Number of retries for file transmissions. Default is 0.
Send EERP	Required. Defines when to send an EERP. Valid values are: • Always (default) • Never • Pass through (EERP/NERP forwarding)

The following diagram illustrates the special cases while using format F in the Record Delimiter parameter:

Format	Rec Len	Del 1	Del 2	Sending Party	Receiving Party
F	<rec. len>	-2	-2	Split data in rec. len blocks	appends OS specific delims (1310 or 10)
F	<rec. len>	<d1>	-1	removed d1 from stream	appends <d1> to output data stream
F	<rec. len>	<d1>	<d2>	removed d1/d2 from stream	appends <d1> and <d2> to out. data stream
F	<rec. len>	-1	-1	Split data in rec. len blocks	Do NOT append any delims to out. Stream (newdefa

5. In the LPC - Part III page, complete the following fields and click Next:

Field Name	Description
Monitor EERP Reception	Select this check box to find out whether an EERP arrives within a given time period in minutes (EERP Timeout) or not. This check box is selected for send messages. If the EERP arrives later than the time specified in EERP Timeout, a visibility event is created. Clear the check box if you do not want to monitor EERPs.
EERP Timeout	If the EERP Timeout limit in minutes is exceeded, a visibility event is created. This field replaces WaitForEERP field in Gentran Integration Suite version 4.3 and lower.
Monitor Send Queue	If a message is in the SCHEDULED status, this check box is selected. Indicates whether a time limit (File Schedule Timeout) has been exceeded or not. If the time limit is exceeded, a visibility event is created. This feature can be used to make sure that a message is sent within a given time frame.
File Schedule Timeout	Time limit in minutes. Specifies the time a message is allowed to stay in the SCHEDULED status.
File Compression	Optional. File Compression File Service is available in OFTP Version 2.0 and higher. For information about File Services, see OFTP 2.0 specification on *http://tools.ietf.org/html/rfc5024*.
File Encryption	Optional. File Encryption File Service is available in OFTP Version 2.0 and higher. Select File Encryption check box to enforce Integrity of file content. For information about File Services, see OFTP 2.0 specification on *http://tools.ietf.org/html/rfc5024*.
File Signing	Optional. File Signing File Service is available in OFTP Version 2.0 and higher. Signing of files allows non-repudiation of origin. For information about File Services, see OFTP 2.0 specification on *http://tools.ietf.org/html/rfc5024*.
Signed EERP Request	Optional. EERP Signing is available in OFTP Version 2.0 and higher. Signing of receipts allows non-repudiation of receipts. The originator of the virtual file may request a signed EERP in the SFID. The signature of the EERP is in CMS format. For information about File Services, see OFTP 2.0 specification on *http://tools.ietf.org/html/rfc5024*.
EERP/NERP Signature Check	Optional. EERP Signature check is available in OFTP Version 2.0 and higher. While signing of receipts allows non-repudiation of receipts parameter, EERP/NERP Signature Check specifies whether the partner who receives an EERP/NERP wants to check the signature contained in the EERP/NERP or not.

Field Name	Description
	For information about how the EERP/NERP Signature is checked against local certificates, see OFTP 2.0 specification on *http://tools.ietf.org/html/rfc5024*.
Cipher Suite	OFTP Version 2.0 specifies the mandatory list of Cipher Suites and the required key lengths: • AES_256_CBS_RSA_PKCS1_15 SHA-1 (sym., 256-bit key) • 3DES_EDE_CBS_3KEY_RSA_PKCS1_15 SHA-1 (3 different 64-bit key) where CBS = Cyclic Block Chaining Mode, EDE = Encryption Decryption Encryption. Both cipher suites use asymmetric RSA_PKCS1_15 with RSA padding defined in PKCS#1 and SHA-1 for hashing.

6. Review the profile settings in the Confirm page.

7. Click **Finish**.

Edit, Search, or List a Partner Profile

You can edit a partner profile using the Search or List functions in Sterling Integrator:

1. From the Administration menu, select **Trading Partner** > **Odette FTP Partner Profile**.

2. Select the element type of the Odette Partner Profile you want to edit. You can change one of the following four elements:

   • Odette FTP Physical Partner
   • Odette FTP Physical Partner Contract
   • Odette FTP Logical Partner
   • Odette FTP Logical Partner Contract

3. Under Search, type the name of the Odette FTP element you want to edit and click **Go!** You can also type the first letter of the name of the Odette FTP element you want to edit under List, and click **Go!**

4. Click **edit** next to the Odette FTP element.

5. Modify the values of the fields to edit the profile setting.

6. Click **Save** to save the changes to the profile setting.

7. Review the profile settings in the Confirm page.

8. Click **Finish**.

Managing Partner Profile with PartnerManager

The PartnerManager is a robust tool that performs different operations on one or more Odette FTP Partner Profile elements, such as doing mass imports or exports.

Use the command line tool of PartnerManager to:

• Import a PartnerProfile.xml file into the Sterling Integrator database (Odette FTP Partner Profile) or perform a consistency check of a new PartnerProfile.xml file.
• Export from the Sterling Integrator database (Odette FTP Partner Profile) one or more partner profile elements into a PartnerProfile.xml file.
• Delete one or more partner profile elements in the Sterling Integrator database (Odette FTP Partner Profile). Alternatively, to get an initialized state, all entries can be deleted.
• List one or more partner profile records from the Sterling Integrator database (Odette FTP Partner Profile) in a short overview containing only the names of the partner profile elements.

For more information on the structure of the PartnerProfile XML file, see *Partner Profile XML Setup*.

Caution: Use caution when executing PartnerManager (performing Sterling Integrator database write operations) while your Sterling Integrator instance is still running, especially when Odette FTP adapters are enabled to execute OFTP sessions. It is recommended that you close Sterling Integrator or verify that no OFTP sessions will take place, for example, by disabling all Odette FTP adapters.

The PartnerManager is invoked by executing the `OFTPPartnerManager.cmd` (for Windows) or `OFTPPartnerManager.sh` (for UNIX) script in the bin directory of Sterling Integrator.

When executing without any parameters, a usage screen displays the operations that can be performed:

```
Usage: PartnerManager <command>
 where:

   <command> ::= [<importCommmand>] <PartnerProfileName>[-cleandb]
                 || -delete all | <selection>
                 || -export <exportSelection> [<exportfilename>]
                 || -list  all | <selection>

      <importCommmand>   ::= -insert || -update || -replace || -flatinsert
                             || -simulate

      <selection>        ::= <elementList>
      <exportSelection>  ::= allflat | alltree | <selection>
```

```
    <elementList>        ::= <element>=<name||"*"> [<elementList>]
    <element>            ::= PhysicalPartner || pp
                            || PhysicalPartnerContract || ppc
                            || LogicalPartner || lp
                            || LogicalPartnerContract || lpc
```

The key *<name>* in *<elementList>* specifies a particular name of one of the Odette FTP elements that can be selected:

• Physical Partner (pp)
• Physical Partner Contract (ppc)
• Logical Partner (lp)
• Logical Partner Contract (lpc)

PartnerManager Tree View of the Partner Profile Elements

You can use PartnerManager to perform the following operations on the Odette FTP Partner elements:

• Import - Import a PartnerProfile.xml into the Sterling Integrator database
• Export - Export elements of trees from an Odette FTP Partner Profile in the Sterling Integrator database into a PartnerProfile.xml file
• Delete - Delete one or more trees of one or more element types from the Odette FTP Partner Profile in the Sterling Integrator database
• List - List one or more element types in the Odette FTP Partner Profile

Elements are treated as nodes that are connected to trees. A Partner Profile can reside in the Sterling Integrator database or in an XML file.

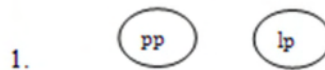The notation of a tree t (one node with its direct children) can be written as follows:

```
t (node_1, .. , node_n)  or  t_name (node_1, .. , node_n)
```

where:
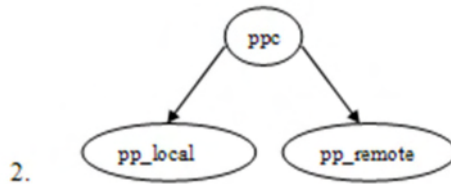
• t is one of {pp, ppc, lp, lpc}
• t_name is one t combined with a name (for example, pp_local or lpc_3)
• the nodes, node1, .. , node_n can be simple trees

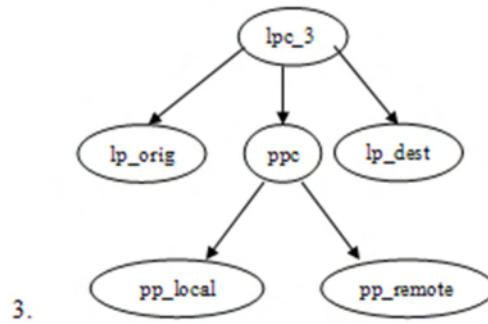The following are the four different kinds of trees that can be used in a Partner Profile:

• The simplest tree has only one root node and no children. The following diagram illustrates Physical Partners (pp) or Logical Partners (lp) in an isolated view.
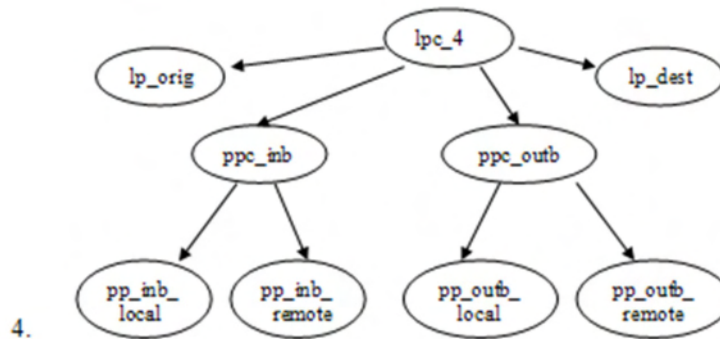

• The following diagram illustrates PhysicalPartnerContract (ppc) with its local (pp_local) and remote (pp_remote) Physical Partners: pp_local and pp_remote:

2.

• The following diagram illustrates Logical Partner Contract (lpc) with the following:

  • One Physical Partner Contract (ppc) as a sub tree (either inbound or outbound)
  • Two Logical Partners (lp): one originator (lp_orig) and one destination (lp_dest)

3.

• The following diagram illustrates Logical Partner Contract (lpc) with the following:

  • Two – inbound and outbound – Physical Partner Contracts: ppc_inb, ppc_outb where each of the ppcs has its own Physical Partners; pp_X_local, pp_X_remote (X = inbound or outbound)
  • Two Logical Partners: one originator (lp_orig) and one destination (lp_dest)

4.

The illustrations depicted here are complete trees because all references inside the trees are resolved. However, under certain conditions, it is possible to have incomplete trees. For example, a Physical Partner Contract with only one local Physical Partner but no remote Physical Partner is incomplete because of one unresolved reference. Trees where the root node is a Logical Partner Contract have maximal size because they cannot be extended any more. See illustrations labelled 3 and 4. The import and export operations in PartnerManager are executed on one or more trees as illustrated in this topic.

Import Operation in PartnerManager

The following five modes can be used when importing a PartnerProfile.xml into Sterling Integrator using the command line syntax for the *importcommand*:

- **insert**: all elements of the PartnerProfile.xml file will be imported organized as trees with maximum size as new elements into the Sterling Integrator database. If one of the elements from a tree exists in the database, the import of the whole tree is canceled and the program continues with the subsequent trees.
- **update**: only those elements of the PartnerProfile.xml file that are not in the Sterling Integrator database will be imported. As in insert mode, the elements are organized as trees with a maximum size. With this mode, only the new elements that are not part of the Sterling Integrator database get imported.
- **replace**: same as the insert mode except that existing elements are completely replaced by their new counterparts that are going to be imported.
- **flatinsert**: same as the insert mode except that import is performed without using trees. Use this mode carefully because it can lead to inconsistent trees in the Sterling Integrator database.
- **simulate**: this mode parses the PartnerProfile.xml file and checks for consistency of its elements but without importing them into Sterling Integrator. Use this mode when a new PartnerProfile.xml file is created and you want to check for consistency of elements.

The command line syntax for the *importcommand* is:

```
PartnerManager [<importcommand>] <PartnerProfileName>
  [-cleandb] [passphrase <oldPwd>]
```

where:

- *<PartnerProfileName>* is a mandatory parameter that must be specified to locate the PartnerProfile.xml file to be read from
- -cleandb is an optional parameter that is specified before importing the entire Odette FTP Partner Profile in the Sterling Integrator database.

Caution: This parameter should be used with care. If not used correctly, all data in the Odette FTP Partner Profile is lost.

- *<oldPwd>* is an optional parameter. If the passphrase is specified, all OFTPUserPasswords of PhysicalPartners in the file to be imported will be decrypted with the passphrase *<oldPwd>* followed by encrypting the passphrase used in Sterling Integrator. Use this parameter if the passphrases of the two Sterling Integrator systems are different.

To help identify whether an element being imported is part of the database, a unique name is used as a compare key. This ensures that there are no two elements (such as, Physical Partners) with the same name.

During import, from every Physical Partner to be imported, the OFTP User Password field is selected. If the password is not in an encrypted format, the import operation asks for the corresponding OFTP User Password. The password is then encrypted before the OFTP User Password field is imported into the Sterling Integrator database. The import file is not changed. If you do not want to be asked for the OFTP User Password during import, you must ensure that it is already set using the OFTP Password Encryption tool. For more information on encrypting passwords, see *Encrypt Odette FTP Password for PartnerProfile.xml*.

During import, imported trees can be incomplete under the restriction that all missing references are already part of the database. For example, it is possible to import a new PhysicalPartnerContract where its referenced Physical Partners already exist in Sterling Integrator database (Odette FTP Partner Profile). If during import

an error occurred, an error is written in `OdetteFTP.log` and the complete tree that could not be inserted is written into a new export file named as the original added with the extension .exp. You can access the rejected Partner Profile data and after correction, import the file separately.

Export Operation in PartnerManager

The following three modes can be used when exporting elements or trees from an Odette FTP Partner Profile in Sterling Integrator database into a PartnerProfile.xml file:

• **allflat**: all elements of the Sterling Integrator database will be exported in the following sequence:

1. Physical Partners
2. Physical Partner Contracts
3. Logical Partners
4. Logical Partner Contracts

Because the sequence is opposite to the order a tree is built from root, no trees bigger than a simple node - tree will be grouped in the exportfile.

• **alltree**: all trees of the Sterling Integrator database will be exported in the following sequence:

1. Logical Partner Contracts: trees with maximal size (type 3 or 4) get exported first.
2. Logical Partners, not being part of any Logical Partner Contract, will get exported next.
3. Physical Partner Contracts, not being part of any Logical Partner Contract, will get exported next as trees.
4. Physical Partners, not exported before will get exported next.

• *<selection>*: exports trees in the order you have specified. However, an element is never exported twice although it might occur as root or as a child in one or more trees.

The command line syntax for the *exportcommand* is:

```
PartnerManager -export <exportSelection>
[<exportfilename>]
 [passphrase <newPwd>]
```

If *<exportfilename>* is specified, the export data is written to that file. If *<exportfilename>* is not specified, the export data is written to the default filename of PartnerProfileManager.xml in the current directory.

<newPwd> is an optional parameter. If the passphrase *<newPwd>* is specified in the export operation, all OFTPUserPasswords of PhysicalPartners being exported will be decrypted with the passphrase of the Sterling Integrator system and then again encrypted with the passphrase *<newPwd>*. The exportfile can no longer be imported into the Sterling Integrator system because its OFTPUserPasswords are now encrypted with the passphrase of the second Sterling Integrator system. This parameter must only be used if the passphrases of the two Sterling Integrator systems are different.

Delete Operation in PartnerManager

The command line syntax for the *deletecommand* is:
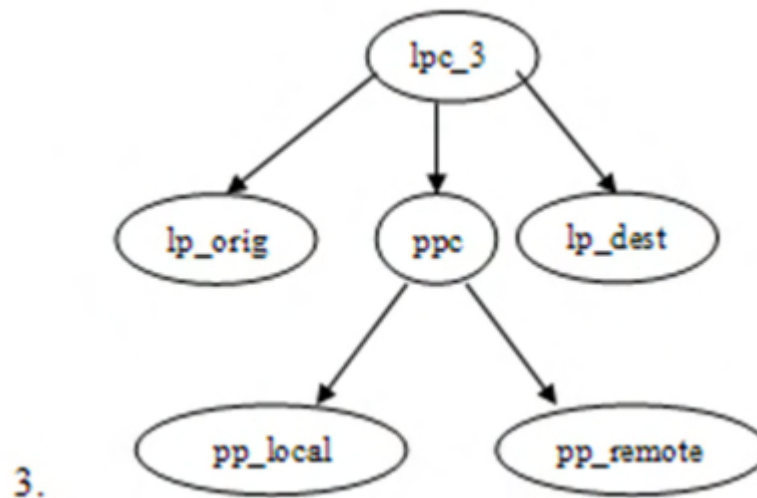
```
PartnerManager -delete all | <selection>
```

You can delete one or all trees of one or more element types from the Odette FTP Partner Profile in the Sterling Integrator database. For example, the command `–delete lpc="*"` will delete all Logical Partner Contracts with their corresponding Physical Partners.

The deletion of a particular element **e** from the deletelist **L** (all elements enumerated in *<elementlist>*) takes place only if the element can be deleted. An element can be deleted if one of the following conditions is fulfilled:

• If an Odette FTP Partner Profile has no tree with t as its child directly or indirectly
• If there is a tree (t2) in Odette FTP Partner Profile that has t as its child, t2 must belong to the deletelist L.

To illustrate the use of the conditions, from the maximal tree type diagram here, trying to delete only lp_orig using `-delete lp=lp_orig` command would violate the first condition because lp_orig is a child from tree lpc_3. The first selection criteria `lp=lp_orig` in command `–delete lp=lp_orig,lpc=lpc_3` though violates the first condition, complies with the second condition. lpc_3 cannot be referenced by another element, therefore it complies with the first condition:

3.

The `–delete all` command deletes the complete Odette FTP Partner Profile without any conditions.

Caution: This command cannot be undone. Ensure a back up of the Odette FTP Partner Profile database configuration (using PartnerManager's export command) exists before deleting parts of the partner configuration.

List Operation in PartnerManager

The command line syntax for the *listcommand* is:

```
PartnerManager –list all | <selection>
```

The names of a particular element or all elements of one or more type in the Odette FTP Partner Profile are listed. For example, the command `-list lp="*", lpc="*"` will print out all Logical Partners and then all Logical Partner Contracts with their names to stdout.

Partner Profile XML Setup

The Partner Profile XML file is a configuration file in an XML format. The Partner Profile XML is used by the OFTPPartnerManager command line tool for mass importing, exporting, or deleting OFTP Partner Profiles into/from an Odette FTP Profile database.

The Partner Profile consists of the following:

- A General Parameters section that contains the mandatory field, PartnerProfileVersion. PartnerProfileVersion is used to identify changes in the Partner Profile, such as added, removed, or changed fields or XML structures. The services and adapters check to ensure they can read the partner profile. The default value is version 3.0.
- Physical Partners and Physical Partner Contracts that are specified in one or more PhysicalPartnerSpec targets. A PhysicalPartnerContract consists of the local and the remote physical partner that are used to establish the OFTP communication link between the two physical partners, in addition to other data.
- Logical Partners and Logical Partner Contracts that are specified in one or more LogicalPartnerSpec targets. A LogicalPartnerContract contains the following information, in addition to other data:

  - The OriginatorLogicalPartner
  - The DestinationLogicalPartner
  - PhysicalPartnerContract (inbound and/or outbound)

The LogicalPartnerContract is the entry point for all ongoing Odette FTP communication. The LogicalPartnerContract references all corresponding logical partner information and the PhysicalPartnerContracts.

Certificates in Partner Profile XML

The Sterling Integrator user interface allows you to select Certificates and Private Keys from lists in the application. If you are setting up a Partner Profile XML manually, you must reference the certificates listed in the following table:

Location	Certificate Name
PhysicalPartner	AuthenticationCertificate
PhysicalPartner/TCP-IP	SSLCertificate

Location	Certificate Name
LogicalPartner	FileServiceCertificate

Each certificate can be a:

• CA Certificate - can be used more than once in one location
• Trusted Certificate - can be used more than once in one location
• System Certificate (PrivateKey) - can be used only once in one location

For more information on using certificates, see *Digital Certificates* in the Sterling Integrator online documentation library. To view a sample template of a manual Partner Profile, see *Manual Partner Profile Sample*.

The following is an example of specifying a system certificate:

```
<Certificate name> type="PrivateKey"
  Subject <Distinguished Name String>    (required)
  Issuer <Distinguished Name String>    (required)
  Serial <BigNumber String>   (optional)
```

Note: The components within one distinguished name have to be separated by a comma, optionally following a blank.

The following is a code sample of a system certificate:

```
<AuthenticationCertificate type="PrivateKey">
    <Subject>CN=SOAServicesTestCertificate, O=SOAServicesTestIdentity1,
        C=US</Subject>
    <Issuer> CN=SOAServicesTestCertificate, O=SOAServicesTestIdentity2,
      C=US</Issuer>
    <Serial>01234567890987654321</Serial>
</AuthenticationCertificate>
```

The following is an example of specifying a CA or a Trusted certificate:

```
{ <Certificate name> type="CA or Trusted"
  Subject <Distinguished Name String>    (required)
  Issuer  <Distinguished Name String>    (required)
  Serial<BigNumber String> (optional)}+  (the whole structure can repeat)
```

Note: The components within one distinguished name have to be separated by a comma, optionally following a blank.

The following is a code sample of a CA or Trusted certificate:

```
<SSLCertificate type="Trusted">
    <Subject>CN=OFTP_TLS_A1, OU=RL, O=STERLING, L=DUESSELDORF,
        ST=NRW, C=DE</Subject>
     <Issuer>C=GE, O=Sterling, OU=RL, CN=RLCA</Issuer>
</SSLCertificate>
```

Manual Partner Profile Sample

The following is a sample template of the Partner Profile with its complete content:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <!--
  This file as template contains all physical and logical partner
    profile information used by the Odette FTP adapter

 -->
- <PartnerProfiles>
- <GeneralParameters>
  <PartnerProfileVersion>3.00</PartnerProfileVersion>
  </GeneralParameters>
- <!--
 PhysicalPartnerSpec and LogicalPartnerSpec can occur more oftenly with
    the restriction that references between different subgroups (e.g.
    PhysicalContract to PhysicalPartner) can only be made backwards but not
    forwards (e.g. a certain PhysicalPartner has already to be
    defined when it will be referenced by PhysicalPartnerContract

 -->
- <!--
 WARNING: this file acts as a template only and has to be fit by the user!
          The user has to review and fill in or substitute with his/her
          actual values needed by the required fields


 -->
- <PhysicalPartnerSpec>
- <!--
 This group should define physical partners and contracts where
      the physical contracts may only follow their corresponding partners.

 -->
- <!--  1. some example Physical Partner entries
  -->
- <PhysicalPartner name="PP_LocalCapi1" type="ISDN">
  <Description>Sample local PhysicalPartner using ISDN</Description>
  <OFTPUserId>LocalCapi1</OFTPUserId>
  <OFTPUserPassword />
  <SSIDUserField>add.Info</SSIDUserField>
  <SessionRetryIntervals>60,300,900</SessionRetryIntervals>
  <MailboxUser>mboxPP_LocalCapi1</MailboxUser>
  <SubMailbox>subMboxPP_Remote1</SubMailbox>
- <!--
 Extractability: there are three different modes to choose:
  <Extractability type="Extractable">yes or no</Extractability>
  <Extractability type="ExtractableCount">number</Extractability>
  <Extractability type="ExtractableUntil">YYMMTTHHmmss</Extractability>

 -->
```

```xml
    <Extractability type="Extractable">yes</Extractability>
-   <!-- Certificates and Private Keys, before import their validity is checked
    -->
-   <AuthenticationCertificate type="CA Certificate">
    <Subject>CN=NAGA, OU=DEV, O=CSG, ST=TX, C=US</Subject>
    <Issuer>CN=NAGA, OU=DEV, O=CSG, ST=TX, C=US</Issuer>
    </AuthenticationCertificate>
-   <AuthenticationCertificate type="PrivateKey">
    <Subject>CN=SOAServicesTestCertificate, O=SOAServicesTestIdentity, C=US</Subject>

    <Issuer>CN=SOAServicesTestCertificate, O=SOAServicesTestIdentity, C=US</Issuer>

    <Serial>01234567890987654321</Serial>
    </AuthenticationCertificate>
-   <Capi_Parameters>
-   <!--  mandatory subgroup for a PhysicalPartner with type "ISDN"
    -->
    <Address>ISDNnumber</Address>
    <SubAddress />
    <AlternativeAddresses>altISDNnumber1,..,altISDNnumbern</AlternativeAddresses>

    <LocalNUA />
-   <!--  local X.121 address
    -->
    <RemoteNUA />
-   <!--  remote X.121 address
    -->
 <B3_ChannelConf>0, 0, 1, 1, 0, 0</B3_ChannelConf>
-   <!--
    this array contains exactly 6 items; the order of the items is:
      LIC, HIC, LTC, HTC, LOC and HOC; further details see documentation

 -->
    <Modulo>8</Modulo>
    <BWindowSize>7</BWindowSize>
    <CallUserData>0102abcdef</CallUserData>
    <Facilities>FFEE</Facilities>
    </Capi_Parameters>
    </PhysicalPartner>
-   <PhysicalPartner name="PP_RemoteCapi1" type="ISDN">
    <Description>Sample remote PhysicalPartner using CAPI</Description>
    <OFTPUserId>RemoteCapi1</OFTPUserId>
    <OFTPUserPassword />
-   <!--
    other fields left out,
        they have to be completed according PP_LocalCapi1

 -->
-   <Capi_Parameters>
-   <!--  mandatory subgroup for a PhysicalPartner with type "ISDN"
    -->
    <Address>ISDNnumber</Address>
-   <!--
    other fields left out,
```

```
        they have to be completed according PP_LocalCapi1

 -->
  </Capi_Parameters>
  </PhysicalPartner>
- <PhysicalPartner name="PP_LocalIP1" type="IP">
  <Description>Sample local PhysicalPartner using IP</Description>
  <OFTPUserId>LocalIP1</OFTPUserId>
  <OFTPUserPassword />
  <SSIDUserField>add.Info</SSIDUserField>
  <SessionRetryIntervals>60,300,900</SessionRetryIntervals>
  <MailboxUser>mboxPP_LocalIP1</MailboxUser>
  <SubMailbox>subMboxPP_Remote1</SubMailbox>
- <!--
 Extractability: there are three different modes to choose:
  <Extractability type="Extractable">yes or no</Extractability>
  <Extractability type="ExtractableCount">number</Extractability>
  <Extractability type="ExtractableUntil">YYMMTTHHmmss</Extractability>

 -->
  <Extractability type="ExtractableCount">3</Extractability>
- <!--  Certificates and Private Keys, before import their validity is checked
  -->
- <AuthenticationCertificate type="Trusted Certificate">
  <Subject>CN=NAGA1, OU=DEV, O=CSG, ST=TX, C=US</Subject>
  <Issuer>CN=NAGA1, OU=DEV, O=CSG, ST=TX, C=US</Issuer>
  </AuthenticationCertificate>
- <AuthenticationCertificate type="Trusted Certificate">
  <Subject>CN=NAGA2, OU=DEV, O=CSG, ST=TX, C=US</Subject>
  <Issuer>CN=NAGA2, OU=DEV, O=CSG, ST=TX, C=US</Issuer>
  </AuthenticationCertificate>
- <TCP-IP_Parameters>
- <!--  mandatory subgroup for a PhysicalPartner with type "IP"
 -->
  <Hostname>hostname or IP address</Hostname>
  <IPPort>13617</IPPort>
  <IPFilter>16.127.128.129 99.86.13.255/26 FEDC:BA74::12:1:1234/120 fe80::1::2
0:0:1980::1:192.168.13.212/64 2002:FE10:2849:DD0A::0/63
2002:FE10:2849:DD0A:B321:AC34:0E21:3/63</IPFilter>
- <!--  session level encryption: SSL stuff including certificates
  -->
  <SSL>SSL_MUST</SSL>
  <CipherStrength>Weak</CipherStrength>
- <SSLCertificate type="PrivateKey">
- <!--  SystemCertificate OpsKey
  -->
  <Subject>CN=Ops, O=Sterling, C=US</Subject>
  <Issuer>CN=Ops, O=Sterling, C=US</Issuer>
  </SSLCertificate>
- <SSLCertificate type="Trusted">
- <!--  TRUSTED_CERT_INFO rmikey
  -->
  <Subject>CN=ken meeks,OU=sterling,O=sterling,L=dublin,ST=ohio,C=us</Subject>
  <Issuer>CN=ken meeks,OU=sterling,O=sterling,L=dublin,ST=ohio,C=us</Issuer>
```

```
      </SSLCertificate>
      </TCP-IP_Parameters>
      </PhysicalPartner>
-   <PhysicalPartner name="PP_RemoteIP1" type="IP">
      <Description>Sample remote PhysicalPartner using IP</Description>
      <OFTPUserId>RemoteIP1</OFTPUserId>
      <OFTPUserPassword />
-   <!--
 other fields left out,
        they have to be completed according PP_LocalIP1

 -->
-   <TCP-IP_Parameters>
-   <!--  mandatory subgroup for a PhysicalPartner with type "IP"
      -->
      <Hostname>hostname or IP address</Hostname>
      <IPPort>3305</IPPort>
      <IPFilter>10.123.456.789</IPFilter>
      <SSL>SSL_NONE</SSL>
      </TCP-IP_Parameters>
      </PhysicalPartner>
-   <!--  1. some example Physical Partner Contract entries
      -->
-   <PhysicalPartnerContract name="PPC_IP1">
      <Description>Sample PhysicalPartnerContract using IP</Description>
      <LocalPhysicalPartner>PP_LocalIP1</LocalPhysicalPartner>
      <RemotePhysicalPartner>PP_RemoteIP1</RemotePhysicalPartner>
      <OdetteFTPAPILevel>1</OdetteFTPAPILevel>
-   <!--  valid values: 1 (1.2), 2 (1.3), 4 (1.4)
      -->
      <AcceptSFIDsForNonLPC>Yes</AcceptSFIDsForNonLPC>
      <CreditWindowSize>7</CreditWindowSize>
      <DuplicateFileChecking>No</DuplicateFileChecking>
      <DuplicateFilePeriod>3</DuplicateFilePeriod>
      <ExchangeBufferSize>1024</ExchangeBufferSize>
      <GroupNameList>IP1,IP2</GroupNameList>
      <SessionLogLevel>DEBUG</SessionLogLevel>
      <SendReceiveCapabilities>B</SendReceiveCapabilities>
      <CompressionCapabilities>No</CompressionCapabilities>
      <MultipleLoginSessions>1</MultipleLoginSessions>
      <SecureAuthentication>Yes</SecureAuthentication>
      <InitiatorBusinessProcess>BusinessProcessName</InitiatorBusinessProcess>
      <BusinessProcessUser>admin</BusinessProcessUser>
      </PhysicalPartnerContract>
      </PhysicalPartnerSpec>
-   <LogicalPartnerSpec>
-   <!--
 This group should define logical partners and contracts where
     the logical contracts may only follow their corresponding partners.

 -->
-   <!--  some Logical Partner entries
      -->
-   <LogicalPartner name="LP_Local1">
```

```xml
  <Description>Sample local LogicalPartner</Description>
  <OdetteName>ODETTENAME_LP_Local1</OdetteName>
  <ContactPerson>Name of LP_Local1</ContactPerson>
- <!--  Certificates and Private Keys, before import their validity is checked
  -->
- <FileServiceCertificate type="CA Certificate">
  <Subject>CN=NAGA1, OU=DEV, O=CSG, ST=TX, C=US</Subject>
  <Issuer>CN=NAGA1, OU=DEV, O=CSG, ST=TX, C=US</Issuer>
  </FileServiceCertificate>
- <FileServiceCertificate type="PrivateKey">
- <!--  SystemCertificate OpsKey
  -->
  <Subject>CN=Ops, O=Sterling, C=US</Subject>
  <Issuer>CN=Ops, O=Sterling, C=US</Issuer>
  </FileServiceCertificate>
- <FileServiceCertificate type="CA Certificate">
- <!--  again a CA CERT
  -->
  <Subject>CN=NAGA2, OU=DEV, O=CSG, ST=TX, C=US</Subject>
  <Issuer>CN=NAGA2, OU=DEV, O=CSG, ST=TX, C=US</Issuer>
  </FileServiceCertificate>
  </LogicalPartner>
- <LogicalPartner name="LP_Remote1">
  <Description>Sample remote LogicalPartner</Description>
  <OdetteName>ODETTENAME_LP_Remote1</OdetteName>
  <ContactPerson>Name of LP_Remote1</ContactPerson>
  </LogicalPartner>
- <!--  some Logical Partner Contract entries
  -->
- <LogicalPartnerContract name="LPC1">
  <Description>Sample LogicalPartnerContract</Description>
  <OriginatorLogicalPartner>LP_Local1</OriginatorLogicalPartner>
  <DestinationLogicalPartner>LP_Remote1</DestinationLogicalPartner>
  <InboundPhysicalPartnerContract />
  <OutboundPhysicalPartnerContract>PPC_IP1</OutboundPhysicalPartnerContract>
  <InboundBusinessProcess>inboundBP</InboundBusinessProcess>
  <InboundBusinessProcessUser>admin</InboundBusinessProcessUser>
  <DefaultOFTPVirtualFilename>BilateralOFTPFilename</DefaultOFTPVirtualFilename>

  <ReceiveVirtualFilenamePattern>RegularPattern*</ReceiveVirtualFilenamePattern>

  <SendEERP>A</SendEERP>
  <OFTPFileUserField>yourchoice</OFTPFileUserField>
  <CharEncoding>UTF-8</CharEncoding>
  <FileFormat>V</FileFormat>
- <!--  valid values: (U)nformatted, (T)ext, (F)ixed, (V)ariable
  -->
- <!--  RecordLength: only to use if  FileFormat = F or V
  -->
  <RecordLength>120</RecordLength>
  <RecordDelimiter>13,10</RecordDelimiter>
  <EERPTimeout>240</EERPTimeout>
  <FileScheduleTimeout>-1</FileScheduleTimeout>
  <FileCompression>0</FileCompression>
```

```
-   <!--  valid values: 0 or 1
    -->
    <FileEncryption>Yes</FileEncryption>
    <FileSigning>Yes</FileSigning>
    <SignedEERPRequest>Yes</SignedEERPRequest>
    <CipherSuite>1</CipherSuite>
-   <!--  valid values: 0, 1, 2
    -->
    <EERPSignatureCheck>Strict</EERPSignatureCheck>
-   <!--  valid values: None or Strict
    -->
    <NERPSignatureCheck>None</NERPSignatureCheck>
-   <!--  valid values: None or Strict
    -->
    </LogicalPartnerContract>
    </LogicalPartnerSpec>
    </PartnerProfiles>
```

Encrypt Odette FTP Password for PartnerProfile.xml

You are no longer required to encrypt the Odette FTP password in the PartnerProfile.xml file because when using the PartnerManager during import, the Odette FTP Password is already encrypted. However, it is recommended to encrypt the Odette FTP Password before the import is invoked. The import operation asks for the Odette FTP User Passwords that are not set.

In the PartnerProfile.xml file, every physical partner includes two mandatory fields:

• OFTPUserID
• OFTPUserPassword

For security reasons, the Odette FTP adapter only accepts the OFTPUserPassword in encrypted format.

To encrypt OFTPUserPasswords, Sterling Integrator includes a script in the *<install_dir>*/bin directory named:

```
encryptOFTPPasswords.sh <filename>(for Unix)
```

```
encryptOFTPPasswords.cmd <filename> (for Windows)
```

where *<filename>* denotes a valid path to the PartnerProfile.xml file.

The script encrypts every unencrypted OFTPUserPassword field of a particular OFTPUserID. If a specified PartnerProfile.xml file is invoked by the script prior to using the PartnerProfile.xml file, each OFTPUserPassword field is empty. All successive calls to the same PartnerProfile.xml file are valid only if new physical partners and empty OFTPUserPassword fields are added to this file. In this case, you are prompted to enter the passwords of the newly added physical partner structures.

Note: An OFTPUserPassword field is only encrypted if the content is empty. Otherwise, the content is not changed and is treated as encrypted.

The following is an example of a part of the PartnerProfile.xml file:

```
<PhysicalPartnerSpec>
 <PhysicalPartner name="PP_Local1" type="ISDN">
  <OFTPUserId>LocalUserId</OFTPUserId>
  <OFTPUserPassword></OFTPUserPassword>

  <SendEERP>A</SendEERP>
          ...
 </PhysicalPartner>
    ...
```

```
</PhysicalPartnerSpec>
...
```

To encrypt an Odette FTP password in the PartnerProfile.xml file:

1. Invoke `encryptOFTPPasswords.sh <path>/PartnerProfile.xml`. The following message is displayed:

   ```
   In PhysicalPartner PP_Local1 please enter for OFTPUserID LocalUserId the
   OFTPUserPassword:
   ```

2. Enter and confirm a password for the OFTPUserPassword to store in encrypted format. The program will continue and prompt for all other unencrypted passwords.

   The following is an example of an encrypted password:

   ```
   <OFTPUserPassword>rO0ABXQABkRFU2Vk… jGFOyD0CMG7w==</OFTPUserPassword>
   ```

   Note: The password must not exceed eight characters. Do not change any of the encrypted characters or the password cannot be decrypted properly later.

3. Copy the PartnerProfile.xml file to the Odette FTP adapter Partner Profile directory configured in OdetteFTP.properties. The default path for the OdetteFTP.properties file is *<install_dir>*/install/properties.

Change Odette FTP Password

The Odette FTP Password is mutually agreed between trading partners. Therefore, any change in the password should be done by the trading partners involved after agreeing mutually.

When you mass import, export, delete, or update the Odette FTP profile using PartnerManager, the passwords are not changed.

If you have changed the Odette FTP password in the Partner User Interface, the change is reflected in the PartnerProfile.xml file.

If you want to add new partners to your Odette FTP partner profile, it is recommended to test the modified partner profile in a non-production environment successfully before moving it into a production system. If you do not have a non-production system, check the Odette FTP log files for errors. You can check the Odette FTP log file after running a simple send/receive test.

To change the Odette FTP User Password in the PartnerProfile.xml file from one or more Physical Partners:

1. Copy the PartnerProfile.xml file to your system. By default, the PartnerProfile.xml is located in the *<install_dir>*/properties directory.
2. Open the PartnerProfile.xml file in a text editor.
3. Empty the Odette FTP password fields in the Physical Partner profiles where you want to change the password.
4. Save the PartnerProfile.xml file.
5. Run the password encryption script. For more information on encrypting passwords, see *Encrypt Odette FTP Password for PartnerProfile.xml*.

Copyright