Gentran Integration Suite™

OdetteFTP Partner Profile

Version 4.3

Sterling Commerce
An IBM Company

OdetteFTP Partner Profile

The OFTP Partner Profiles are configured in an XML configuration file, which is the basis for retrieving local and remote partner information to do all incoming and outgoing OFTP message transfers.

The Partner Profile consists of the following:

✦ One General Parameters section which currently contains only the mandatory field PartnerProfileVersion.

✦ 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 those two physical partners, in addition to other data.

✦ With the help of an optional time schedule table containing one or more schedules, an InitiatorBusinessProcess can be triggered that will call the OdetteFTP adapter to initiate OFTP sessions for sending and receiving mailbox messages (only Mailbox mode, see additional documentation OdetteFTP scheduler Service).

✦ Logical Partners and Logical Partner Contracts that are specified in one or more LogicalPartnerSpec targets. A LogicalPartnerContract contains (in addition to other data):

  ◆ The OriginatorLogicalPartner

  ◆ The DestinationLogicalPartner

  ◆ LogicalPartnerContract (inbound and or outbound)

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

General Parameter Field

This table describes the general parameter for the Partner Profile:

Field	Description
PartnerProfileVersion	Specifies the version of the partner profile. 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. Default is 2.0. Required.

Physical Partner Fields

This table describes the physical partner fields:

Field Name	Description
OFTPUserId OFTPUserPassword	The OFTP User Identifier and password used in the SSID command. Must be defined in the bilateral agreement with your partner. Required. **Note:** For security reasons, the OFTPUserPassword content must be encrypted in the partner profile. For details on how you can encrypt passwords in the partner profile file, see *OFTP Password Encryption for Partner Profile*.
SSIDUserField	Defined in your bilateral agreement. Optional.
RestartOption	Reserved for future use.
SpecialLogic	Reserved for future use.
SessionRetryIntervals	List of numbers that indicate when a session will retry if there was a failure. Optional.
MailboxUser	User name in the Application Mailbox system. Optional.
Extract Policy Parameters	Specific parameters to control the extractability of messages. Optional.
Extractable	Enables either unlimited extractions or no extractions. Valid values are: ◆ No - The message cannot be extracted. ◆ Yes - No limit to how many times the file can be extracted.
ExtractableUntil	Enables unlimited extractability until a certain date. This is ideal for publishing time-sensitive documents such as price lists of catalogs. Valid value is any future date in the format YYMMTTHHmmss.
ExtractableCount	Enables a message to be extracted a specific number of times. This policy is ideal for automated processes that use a file a limited number of times. This is the default policy. Valid value is any integer. The default is 1.
Section Capi_Parameters	**Specific parameters for type=ISDN. Either Capi_Parameter or TCP_Parameters is Required, but not both.**
Address	The telephone number that either you or your partner calls. Required.
SubAddress	Additional address part. Optional.
AlternativeAddresses	List of alternative addresses (in case of a remote physical partner). Optional.
LocalNUA	Local X.121 address used to call. Optional.
RemoteNUA	Remote X.121 address used to call. Optional.
UseDChannel	Reserved for future use.

Field Name	Description
B3_ChannelConf	List of B3 channel configuration parameters containing six integer values. The order is:
	◆ LIC - Lowest incoming channel. Default is 0. Optional.
	◆ HIC - Highest incoming channel. Default is 0. Optional.
	◆ LTC - Lowest two-way channel. Default is 1. Optional.
	◆ HTC - Highest two-way channel. Default is 1. Optional.
	◆ LOC - Lowest outgoing channel. Default is 0. Optional.
	◆ HOC - Highest outgoing channel. Default is 0. Optional.
Modulo	Send and Receive sequence number counter in X.25 packet. Valid values are:
	◆ 8 - normal operation (default)
	◆ 128 - extended operation
	Optional.
DWindowSize	Transmit and receive window size for D -Channel. Default is 2. Optional.
BWindowSize	Transmit and receive window size for B -Channel. Default is 7. Optional.
Facilities	X.25 parameters, entered as HEX String. Default is 0. Optional.
CallUserData	X.25 parameters, entered as HEX String. Default is 0. Optional.
Section TCP_Parameters	**Specific parameters for type=IP. Either Capi_Parameter or TCP_Parameters is Required, but not both.**
Hostname	Name or IP address of the remote host. Required.
IPPort	Additional address information. Required.
IPFilter	Positive list of IP addresses. Optional.

Physical Partner Contract Fields

This table describes the physical partner contract fields.

Note: The term <numlist(m,n)> indicates a list of integers in the range of m,n in the descriptions in this table.

```
 numlist(m,n)     ::= <empty> || <num>, <numlist(m,n)> ||
                       <num1>-<num2>, <numlist(m,n)>
          m <= num,num1,num2 <= n    &    num1 < num2
```

For example: `listOfMinutes = numlist(0,59)`

Field Name	Description
LocalPhysicalPartner	Reference to the local physical partner (reference by name). Required.

Field Name	Description
RemotePhysicalPartner	Reference to the remote physical partner (reference by name). Required.
OdetteAPILevel	OFTP version. Required. Valid values are: ◆ 1 = version 1.2 ◆ 2 = version 1.3 ◆ 4 = version 1.4
AcceptSFIDsForNonLPC	Flag specifying whether Start Field Identifiers (SFIDs) are accepted for nonexistent LPC. Valid values are: ◆ Yes (accept SFIDs for nonexistent LPC (default) ◆ No (do not accept SFIDs for nonexistent LPC) Optional.
SendReceiveCapabilities	The type of transmission possible from the local physical partner. Valid values are: ◆ S (can only send files) ◆ R (can only receive file) ◆ B (can send and receive files - (default) Optional.
CompressionCapabilities	Support OFTP data compression mode for file types U=Unstructured data, T=Text files, V=Variable record length and F=Fixed record length. Optional. Valid values are: ◆ No - Compression will not be used ◆ Yes - Compression will be used
MultipleLoginSessions	Reserved for future use.
ExchangeBufferSize	Data buffer size used to transmit files. Default is 128. Optional.
CreditWindowSize	Number of buffers used for transmission. Default is 1. Optional.
DuplicateFileChecking	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
DuplicateFileProcessingTesting	Reserved for future use.
Section TimeScheduleTable	**Section used for scheduling. Optional.**
InitiatorBusinessProcess	Business process to initiate OFTP sessions triggered by the specified schedules. Required.
BusinessProcessUser	Application user starting this business process. Optional. Default is admin.

Field Name	Description
Subsection Schedule mode=<schedulemode>	**One or more sections within TimeScheduleTable; depending on schedulemode.**
Startdate	Date the schedule will be started the first time. Format yyyyMMdd If not set, use current time and date.
Enddate	Date the schedule will be started the last time. Format yyyyMMdd
Occurrence	How often this schedule is triggered. Valid value is any integer. Either this field or enddate can be specified.
Recurrence	An integer value to increment the unit of the mode (day, week, month, year), dependent on mode. Default is 1. **Note:** In daily mode only allowed if listOfMonthDays = all
ActionType	The type of action to take. Required. Valid values are: ◆ ConditionalCall ◆ UnconditionalCall
Minutes	listOfMinutes ::= <numlist(0,59)> || all || odd || even. Required.
Hours	listOfHours ::= <numlist(0,23)> || all || odd || even. Required.
Cases for schedulemode	**Fields valid dependent on <schedulemode>. Required.**
mode=daily DaysOfMonth	Daily schedule with following fields: listOfMonthDays ::= <numlist(1,31)> || all || odd || even
mode=weekly DaysOfWeek	Weekly schedule with following fields: ◆ listOfWeekDays ::= <numlist(1,7)> || all || odd || even (1 is the first day of the week according to the locale of the JVM).
mode=monthly DaysOfMonth MonthsOfYear	1. Monthly schedule with following fields: ◆ listOfMonthDays ::= <numlist(1,31)> || all || odd || even ◆ listOfMonths ::= <numlist(1,12)> || all || odd || even, default: all
mode=monthly DaysOfWeek WeekNumber MonthsOfYear	2. Monthly schedule with following fields: ◆ listOfWeekDays ::= <numlist(1,7)> || all || odd || even (see daily mode) ◆ integer (1-5), default: all ◆ listOfMonths ::= <numlist(1,12)> || all || odd || even, default: all
mode=yearly DaysOfMonth MonthsOfYear	1. Yearly schedule with following fields: ◆ listOfMonthDays ::= <numlist(1,31)> || all || odd || even ◆ listOfMonths ::= <numlist(1,12)> || all || odd || even, default: all
mode=yearly DaysOfWeek WeekNumber MonthsOfYear	2. Yearly schedule with following fields: ◆ listOfWeekDays ::= <numlist(1,7)> || all || odd || even (see daily mode) ◆ integer (1-5), default: all ◆ listOfMonths ::= <numlist(1,12)> || all || odd || even, default: all

Logical Partner Fields

This table describes the logical partner fields:

Field Name	Description
OdetteName	OFTP identification. Required.
ContactPerson	Name of a contact person. Optional.

Logical Partner Contract Fields

This table describes the logical partner contract fields:

Field Name	Description
OriginatorLogicalPartner	Specifies the originator logical partner (referenced by name). Required.
DestinationLogicalPartner	References the destination logical partner (referenced by name). Required.
InboundPhysicalPartnerContract	References the receiving PhysicalPartnerContract (referenced by name). Either InboundPhysicalPartnerContract or OutboundPhysicalPartnerContract is required.
OutboundPhysicalPartnerContract	Reference to the sending PhysicalPartnerContracts (referenced by name). Either InboundPhysicalPartnerContract or OutboundPhysicalPartnerContract is required.
OFTPFileUserField	Defined in the bilateral agreement with your partner. Optional.
Send EERP	When to send an EERP. Required. Valid values are: ◆ A - always (default) ◆ N - never ◆ P - pass through (Reserved for future use.)
WaitForEERP	How long to wait (in minutes) for an EERP. Valid value is any integer. If set to 0, wait forever; If not set, do not wait. Optional.
FileFormat	File format of the transmission file. Optional. Valid values are: ◆ U - unformatted (default) ◆ T - text ◆ F - fixed ◆ V - variable-length
RecordDelimiter	If FileFormat is specified as V, this field contains one or two numbers specifying the record end (for example, 13,10 for Windows). If this field is not specified, the system-related settings are used. Optional.
RecordLength	Number of bytes per OFTP record. Optional. **Note:** Only used if FileFormat is F.

Field Name	Description
FileTransmitRetries	Reserved for future use.
DefaultOFTPVirtualFilename	String specifying the virtual filename, which may be overwritten by the business process that is called. Required.

Note: You cannot refer to the same PhysicalPartner definition in two different physical contracts, if the contracts refer to the partner definition in different roles. For example, one contract uses partner A as a remote partner and another contract uses partner A as a local partner. If this occurs, you must duplicate the physical partner definition and rename it (that is, A_local and A_remote).

Changing Partner Profiles in a Production System

Use a Application Maintenance Window to make changes to the Partner Profile. Verify that no business processes are active which call the OdetteFTP adapter.

To activate changes in the Partner Profile file, disable all OdetteFTP adapter instances, replace the old PartnerProfile file with the new one. Restart the adapter instances.

Making Password Changes

To change your OFTP password:

1. Copy the PartnerProfile file and open it in an text editor.

2. Empty one or more OFTP Password fields.

3. Save the file.

4. Run the password encryption script (see *OFTP Password Encryption for PartnerProfile.xml* on page 11).

Note: If an erroneous or inconsistent partner profile is activated (depending on the error type), all existing adapter instances might fail to start correctly because the Partner Profile is shared across all OdetteFTP adapter instances. Therefore, to add new partners to your OFTP partner profile, 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, load the new profile by disabling and then enabling all test instances of the OdetteFTP adapter and check the OdetteFTP log files for errors during partner profile loading.

After enabling the instances, check the OdetteFTP log file to ensure that the adapter instance loaded the Partner Profile without errors.

Partner Profile Sample

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

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!-- This file as template contains all physical and logical partner profile
information used by the OFTP adapter -->
<PartnerProfiles>
<GeneralParameters>
    <!--place parameters that are not partner specific-->
    <PartnerProfileVersion>2.00</PartnerProfileVersion>
</GeneralParameters>

<!-- PhysicalPartnerSpec and LogicalPartnerSpec can occur more often
with the restriction that references between different subgroups (such as
PhysicalContract to PhysicalPartner) can only be made backwards but not forward (that
is, a certain PhysicalPartner has to be defined before it will be referenced by
PhysicalPartnerContract -->

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

   <PhysicalPartner name="PP_Local1" type="ISDN">
   <OFTPUserId>LocalUserId</OFTPUserId>
   <OFTPUserPassword></OFTPUserPassword>
   <SSIDUserField></SSIDUserField>
   <SessionRetryIntervals>60,300,900</SessionRetryIntervals>
   <Capi_Parameters>
   <!-- within PhysicalPartner for type "ISDN" there must
                exist a subgroup Capi_Parameters -->
   <Address>02111234567</Address>
   <SubAddress></SubAddress>
   <AlternativeAddresses>
   022187654321 022187654323 022187654324
   </AlternativeAddresses>
   <LocalNUA></LocalNUA>
   <!-- local X.121 address -->
   <RemoteNUA></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 -->
   <Modulo>8</Modulo>
   <BWindowSize>7</BWindowSize>
   <DWindowSize>2</DWindowSize>
   <Facilities></Facilities>
   <CallUserData></CallUserData>
   </Capi_Parameters>
   <MailboxUser>mboxPP_Local1</MailboxUser>
   <Extractability type="Extractable">yes</Extractability>
   </PhysicalPartner>

   <PhysicalPartner name="PP_Remote1" type="ISDN">
   <OFTPUserId>RemoteUserId</OFTPUserId>
   <OFTPUserPassword></OFTPUserPassword>
   <SSIDUserField></SSIDUserField>

   <SessionRetryIntervals>10,20,30</SessionRetryIntervals>
```

```
<MailboxUser>mboxPP_Remote1</MailboxUser>
<Extractability type="ExtractableCount">5</Extractability>
<Capi_Parameters>
<!-- within PhysicalPartner for type "ISDN" there must
                exist a subgroup Capi_Parameters -->
<Address>022187654321</Address>
<SubAddress></SubAddress>
<AlternativeRemoteAddresses></AlternativeRemoteAddresses>
<LocalNUA></LocalNUA>
<!-- local X.121 address -->
<RemoteNUA></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 -->
<Modulo>8</Modulo>
<DWindowSize>2</DWindowSize>
<BWindowSize>7</BWindowSize>
<Facilities></Facilities>
<CallUserData></CallUserData>
</Capi_Parameters>
</PhysicalPartner>

<PhysicalPartnerContract name="PPC1">
<LocalPhysicalPartner>PP_Local1</LocalPhysicalPartner>
<RemotePhysicalPartner>PP_Remote1</RemotePhysicalPartner>
<OdetteAPILevel>1</OdetteAPILevel>
<!-- valid values: 1 (1.2), 2 (1.3), 4 (1.4) -->
<AcceptSFIDsForNonLPC>Yes</AcceptSFIDsForNonLPC>
<SendReceiveCapabilities>B</SendReceiveCapabilities>
<!-- valid values: (S)end, (R)eceive, (B)oth -->
<CompressionCapabilities>No</CompressionCapabilities>
<MultipleLoginSessions>1</MultipleLoginSessions>
<ExchangeBufferSize>1024</ExchangeBufferSize>
<CreditWindowSize>7</CreditWindowSize>
<DuplicateFileChecking>No</DuplicateFileChecking>
<DuplicateFileProcessingTesting>1
</DuplicateFileProcessingTesting>

 <TimeScheduleTable>
<InitiatorBusinessProcess>BPname</InitiatorBusinessProcess>
<BusinessProcessUser>Operating</BusinessProcessUser>

<Schedule mode="daily">
<!-- start BPname every third day within the hours 13-18 all odd
 minutes; first day is 20070310, last day is 20070601-->
<StartDate>20070310</StartDate>
<EndDate>20070601</EndDate>
<DaysOfMonth>all</DaysOfMonth>
<Recurrence>3</Recurrence>
<Hours>13-18</Hours>
<Minutes>odd</Minutes>
<ActionType>ConditionalCall</ActionType>
</Schedule>
```

```
   <Schedule mode="weekly">
   <!-- start BPname every workday (Mo-Fr) on 8 hours (8-12 and 14-18; 0 min)
    first day is 20070312 (10 is Saturday and will not fit), run for ever-->
   <StartDate>20070310</StartDate>
   <DaysOfWeek>1-5</DaysOfWeek>
   <Recurrence>1</Recurrence>
   <Hours>8-12,14-18</Hours>
   <Minutes>0</Minutes>
   <ActionType>ConditionalCall</ActionType>
   </Schedule>

   <Schedule mode="monthly" >
   <!-- start BPname every third week at its 5.th weekday (Fr) on hours 13-17;
     0 + 30 min); first day is today and run for ever                    -->
      <DaysOfWeek>5</DaysOfWeek>
   <Hours>13-17</Hours>
   <Minutes>0,30</Minutes>
      <Recurrence>3</Recurrence>
   <ActionType>UnconditionalCall</ActionType>
   </Schedule>

   <Schedule mode="yearly">
   <!-- start BPname six times every 1. and 15th day of month at 12 'o clock 13-18 (0
min)
    minutes; first day is 20070310, last day is obsolete because Occurrence is set
-->
   <StartDate>20070310</StartDate>
         <Occurrence>6</Occurrence>
   <DaysOfMonth>1,15</DaysOfMonth>
   <Hours>12</Hours>
   <Minutes>0</Minutes>
   <ActionType>ConditionalCall</ActionType>
   </Schedule>
   </TimeScheduleTable>
   </PhysicalPartnerContract>
</PhysicalPartnerSpec>

<!-- some logical partner entries -->
<LogicalPartnerSpec>
   <!-- This group should define logical partners and contracts
   Where the logical contracts may only follow their
corresponding partners. -->

  <LogicalPartner name="LP_Local1">
   <OdetteName>ODETTENAME_LP_Local1</OdetteName>
   <ContactPerson>Name of LP_Local1</ContactPerson>
  </LogicalPartner>

  <LogicalPartner name="LP_Remote1">
   <OdetteName>ODETTENAME_LP_Remote1</OdetteName>
   <ContactPerson>Mr Smith</ContactPerson>
  </LogicalPartner>

  <LogicalPartnerContract name="LPC1">
   <OriginatorLogicalPartner>LP_Local1</OriginatorLogicalPartner>
   <DestinationLogicalPartner>LP_Remote1</DestinationLogicalPartner>
```

```
    <OutboundPhysicalPartnerContract>PPC1
</OutboundPhysicalPartnerContract>
    <SendEERP>A</SendEERP>
      <!-- valid values: (A)lways, (N)ever, (P)assthru -->
    <WaitForEERP>1440</WaitForEERP>
      <!-- valid values: null : do not wait, 0 : wait for ever,
              number : minutes -->
    <OFTPFileUserField></OFTPFileUserField>
    <FileFormat>U</FileFormat>
    <!-- valid values: (U)nformatted, (T)ext, (F)ixed, (V)ariable -->
      <!-- RecordLength: only to use if FileFormat = F or V
            <RecordLength></RecordLength>
              -->
      <CharEncoding>UTF-8</CharEncoding>
    <FileTransmitRetries>3</FileTransmitRetries>
    <DefaultOFTPVirtualFilename>myOFTPFilename
</DefaultOFTPVirtualFilename>
    </LogicalPartnerContract>

    <LogicalPartner name="LP_Local2">
    <OdetteName>ODETTENAME_LP_Local2</OdetteName>
    <ContactPerson>Name of LP_Local2</ContactPerson>
    </LogicalPartner>
</LogicalPartnerSpec>

</PartnerProfiles>
```

OFTP Password Encryption for PartnerProfile.xml

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

✦ OFTPUserID

✦ OFTPUserPassword

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

To encrypt OFTPUserPasswords, Application 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 only valid 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.

For example, part of the partnerProfile.xml file looks like the following:

```
<PhysicalPartnerSpec>
```

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

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

When calling encryptOFTPPasswords.sh <path>/PartnerProfile.xml, the following message is displayed:

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

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

From the example above, the corresponding line looks like the following:

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

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

Copy the PartnerProfile.xml file to the OdetteFTP adapter Partner Profile directory configured in OdetteFTP.properties (the default is *install_dir*/install/properties).

Configuring the Partner Profile File

Configure the sample partner profile XML file to define your partner information. The OdetteFTP adapter locates the default partner profile in the following directory:

install_dir/properties/PartnerProfile.xml