Supplemento al corso

SAP PI

Implementazione degli scenari

Single Stack

Versione 1.2

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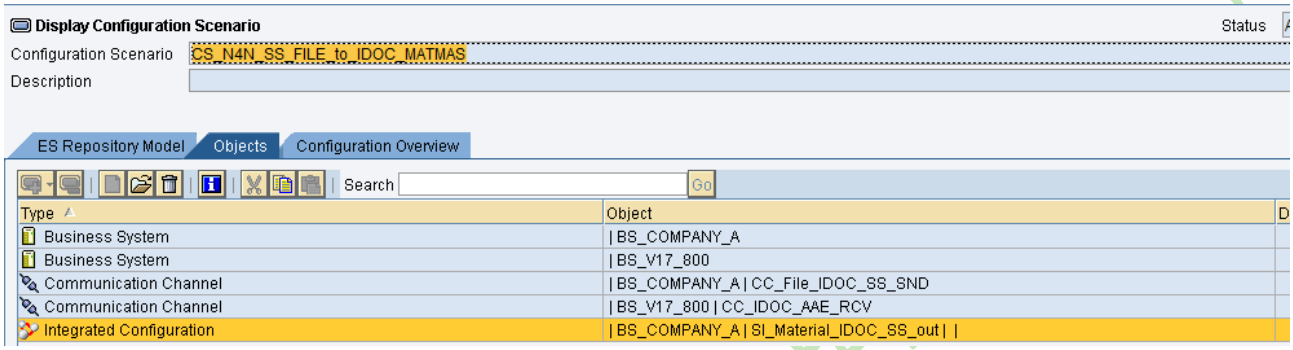
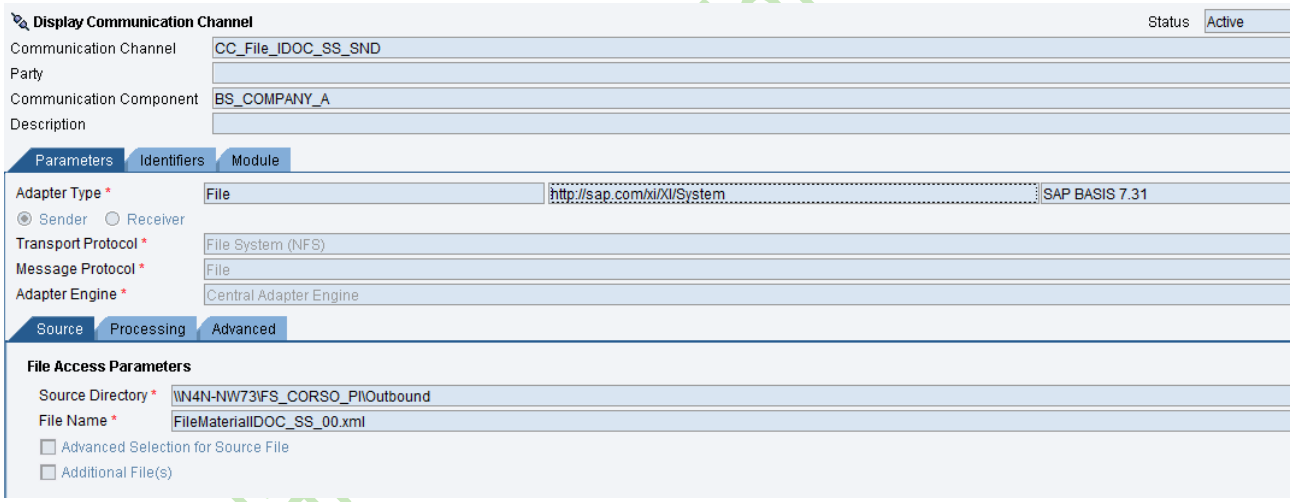
Scenario CS_N4N_SS_FILE_to_IDOC_MATMAS

Scenario	FILE --> IDOC
Obiettivo	Generazione di idoc partendo da file.

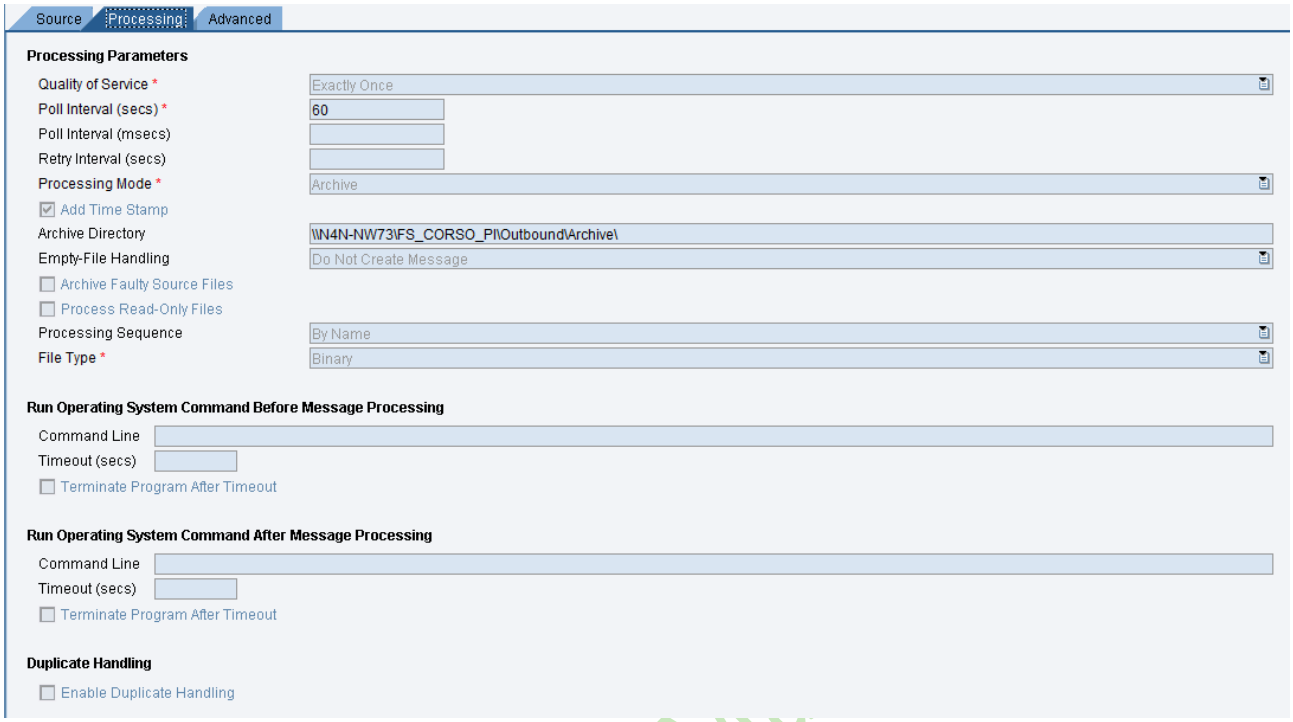
Configurazione lato Configuration: Integrated Configuration

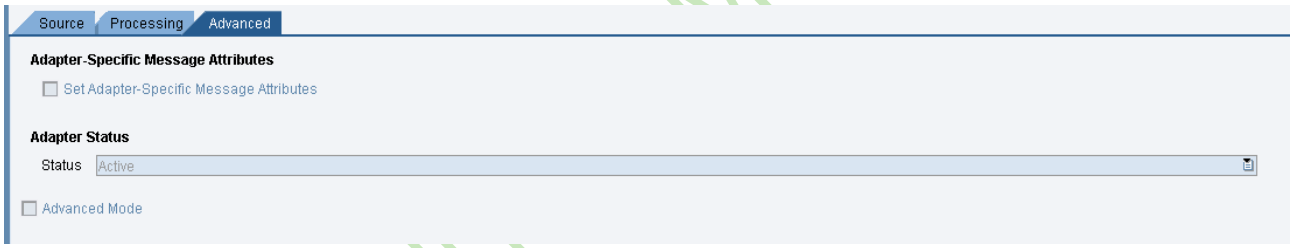


Channel file sender



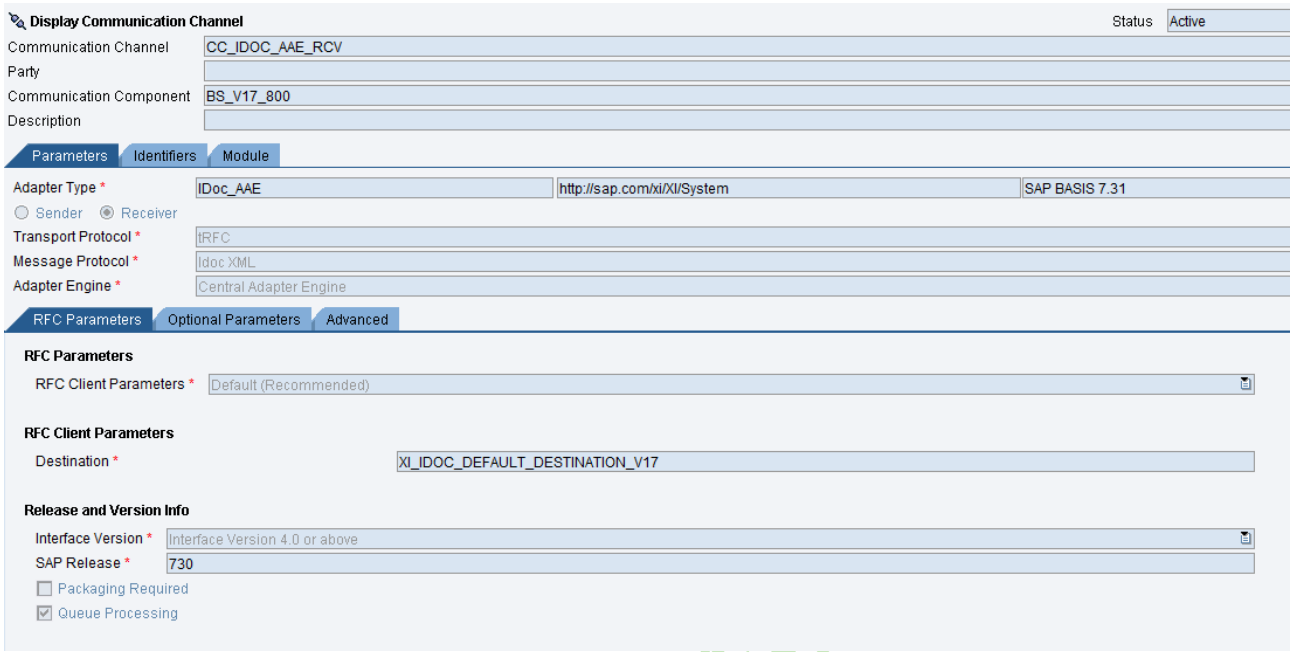
Cc file sender	CC_File_IDOC_SS_SND
Filename	FileMaterialIDOC_SS_00.xml



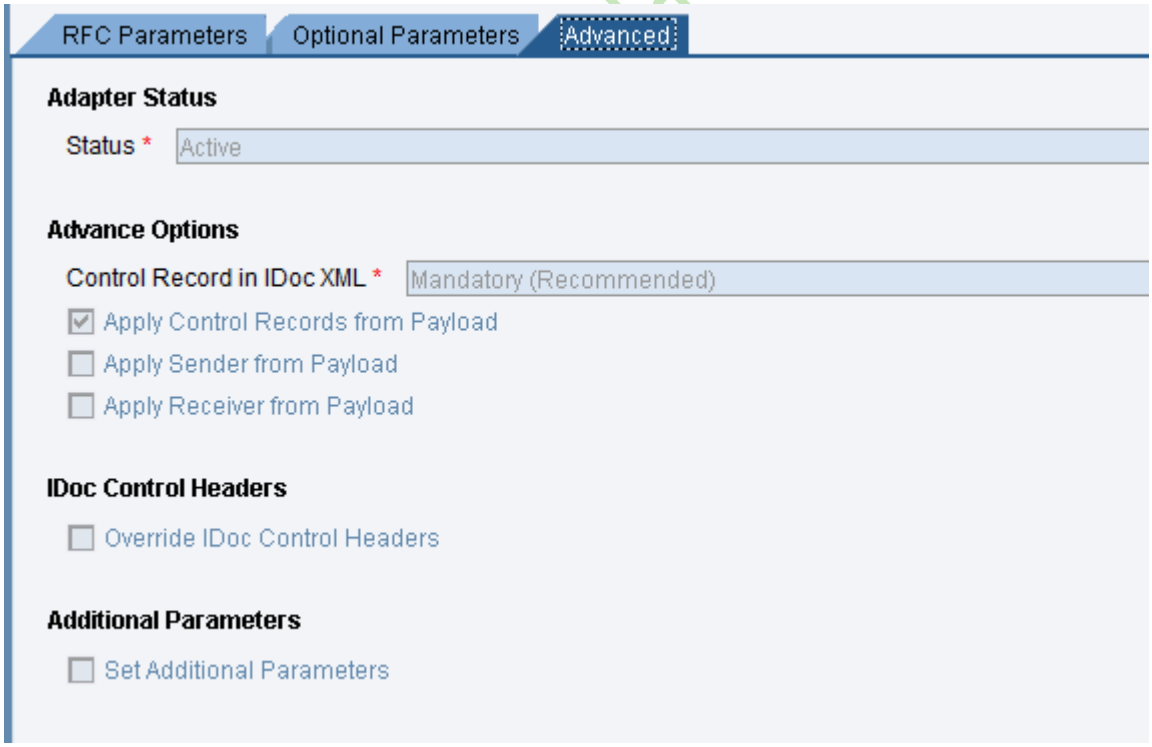


Nick4Name di N

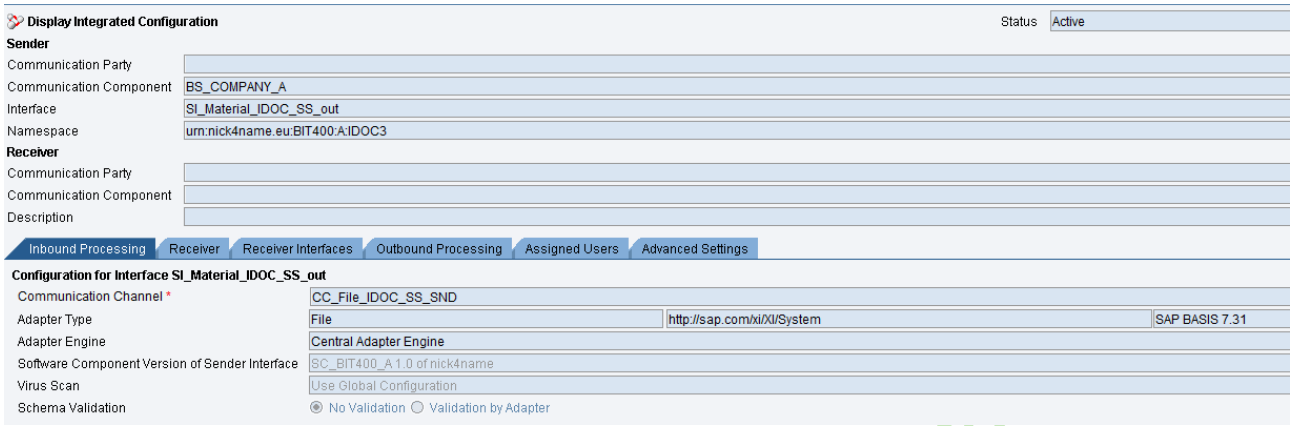
Channel idoc receiver

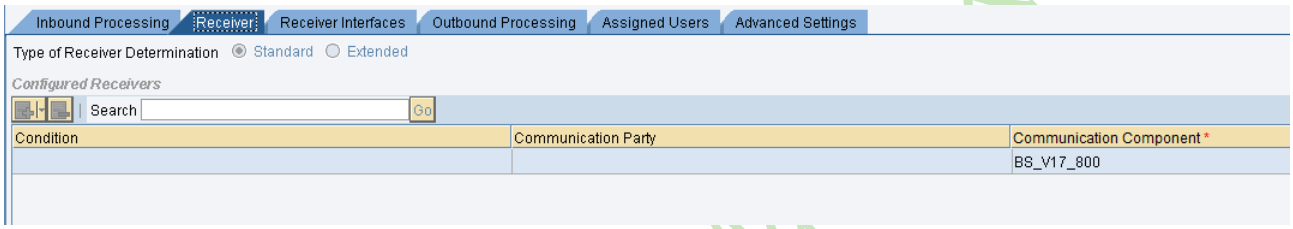


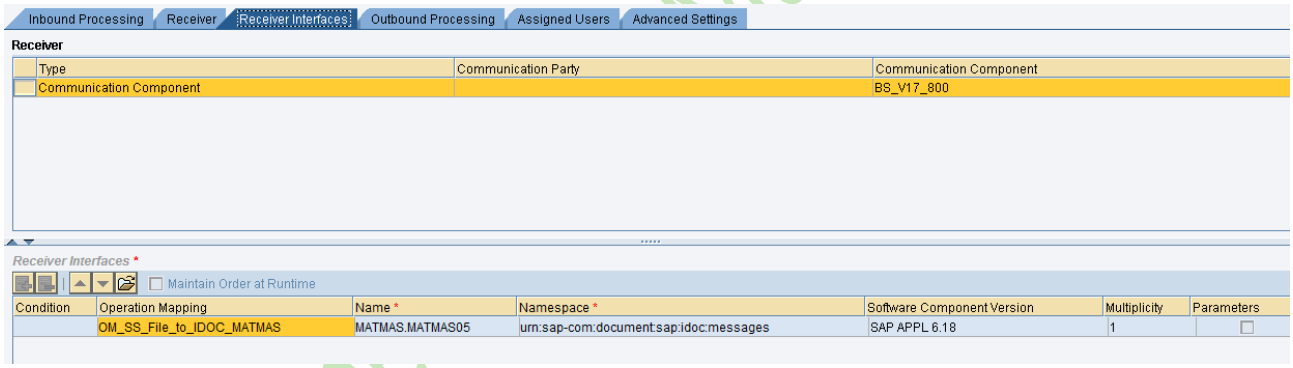
Destination	XI_IDOC_DEFAULT_DESTINATION_V17

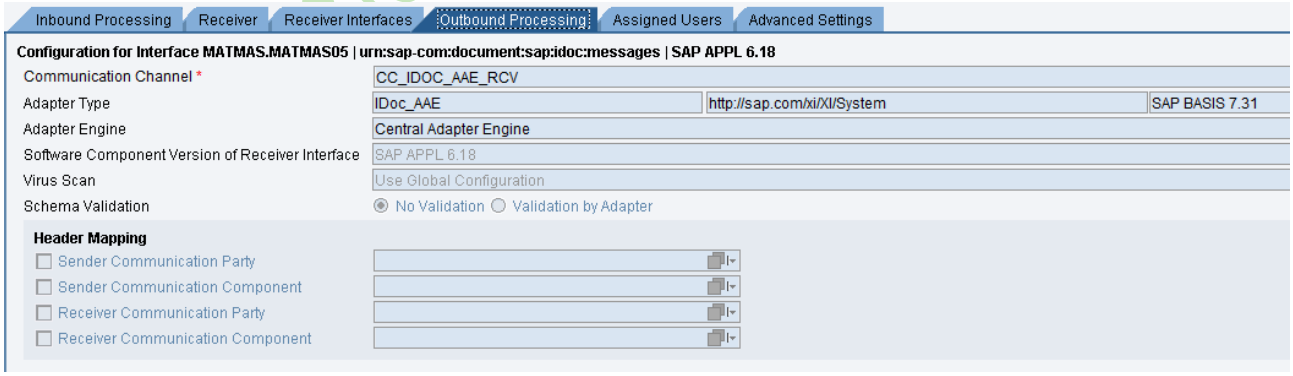


Integrated Configuration





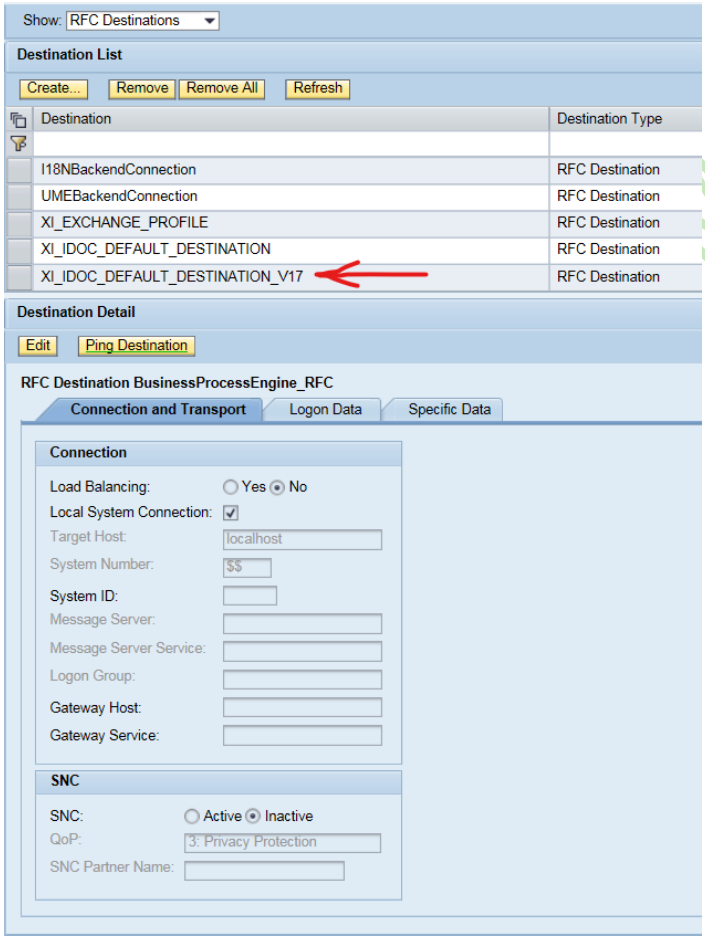


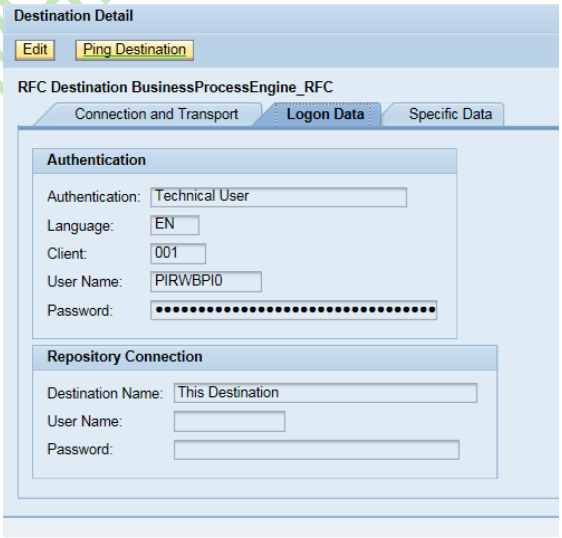


Configurazione NWA

Destinations

XI_IDOC_DEFAULT_DESTINATION_V17 è definito in:





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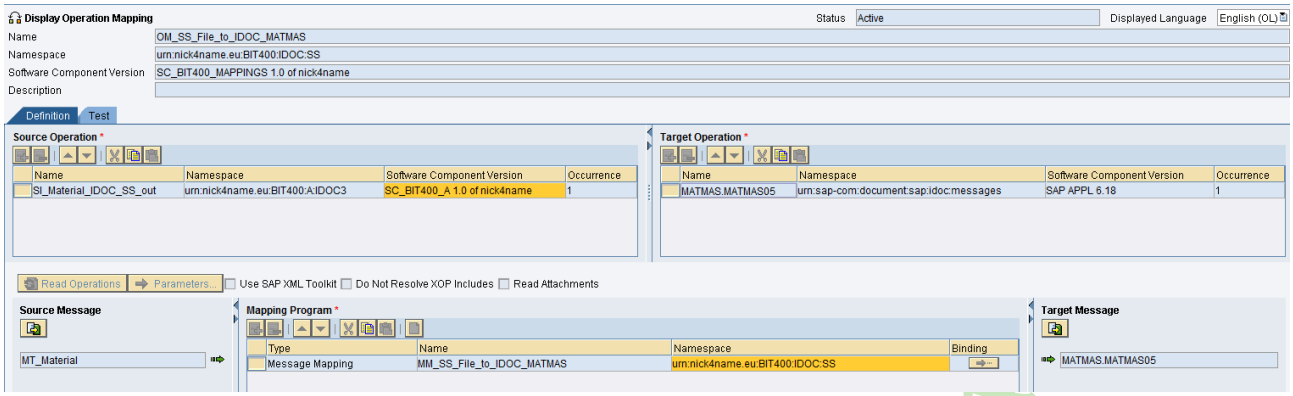
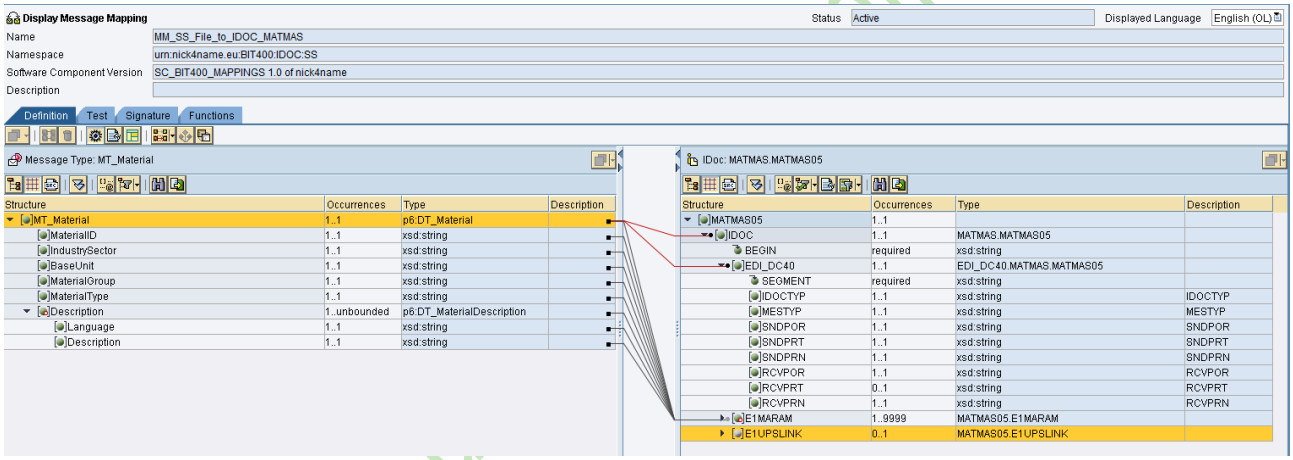
Configurazione lato Enterprise Service Builder

Operation mapping

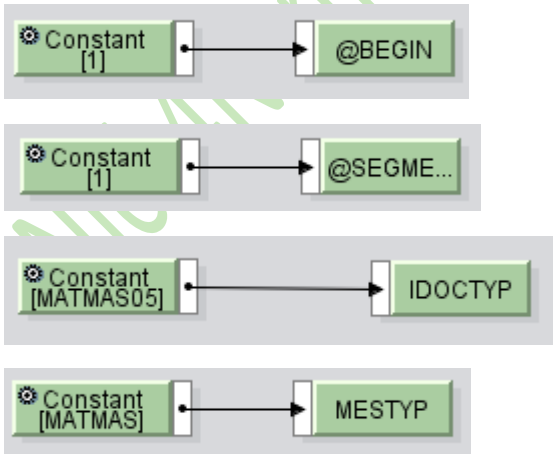


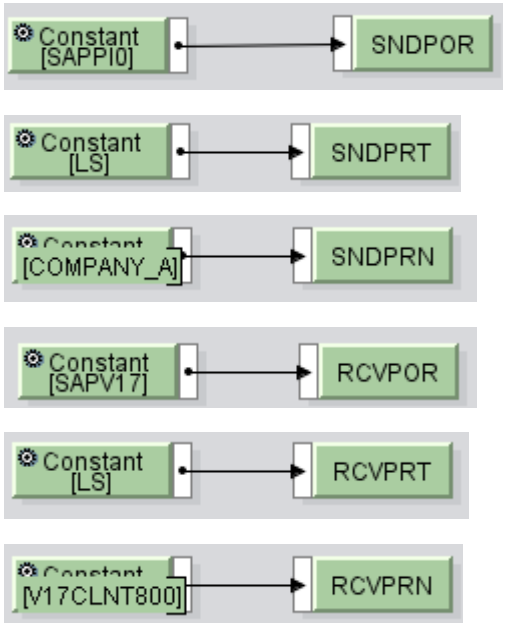
Mapping MM_SS_File_to_IDOC_MATMAS

Record di Controllo

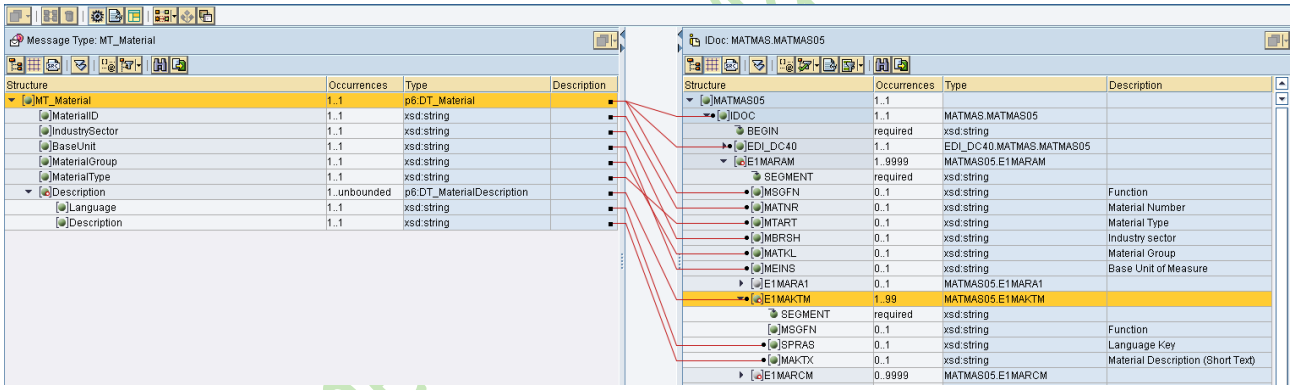


Solo costanti:

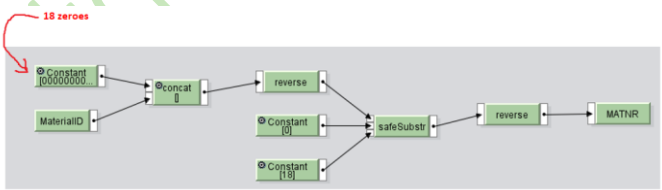




Payload



Mapping campo-campo:




```
public String safeSubstr(String value, int startPos, int length,
Container container) throws StreamTransformationException{
/*
By Nicola Martella (N4N)

La funzione ritorna la sottostringa di value a partire da startPos
(in base 0) per la lunghezza length.
Es1: value: "ABCDEFGHIJ" startPos=6 length=3 ret: "GHI"

Se la posizione di length a partire da startPos eccede la lunghezza
di value, viene ritornata la sottostringa
a partire da startPos per tutta la lunghezza rimanente.
Es2: value: "ABCDEFGHIJ" startPos=6 length=10 ret: "GHIJ"

Se la posizione di startPos e' maggiore della lunghezza di value,
viene ritornata una stringa vuota.
Es3: value: "ABCDEFGHIJ" startPos=11 length=3 ret: ""

Se value è null, viene ritornata una stringa vuota.
Es4: value: null startPos=0 length=3 ret: ""

Se length e/o startPos sono < 0 vengono posti a 0.
*/
```

Nick4Name Martella & F. s.a.s

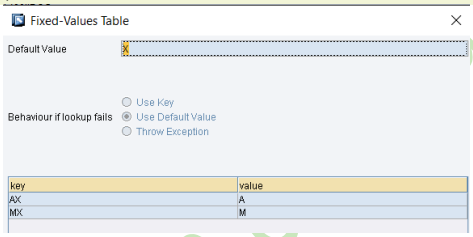
```
            if (value == null) return "";
            if (length < 0) length = 0;
            if (startPos < 0) startPos = 0;

            int toPos = startPos+length;

            if (toPos > value.length()) {
                        toPos = value.length();
            }

            if (startPos > value.length()) {
                        startPos = value.length();
            }

            return value.substring(startPos, toPos);
}
```



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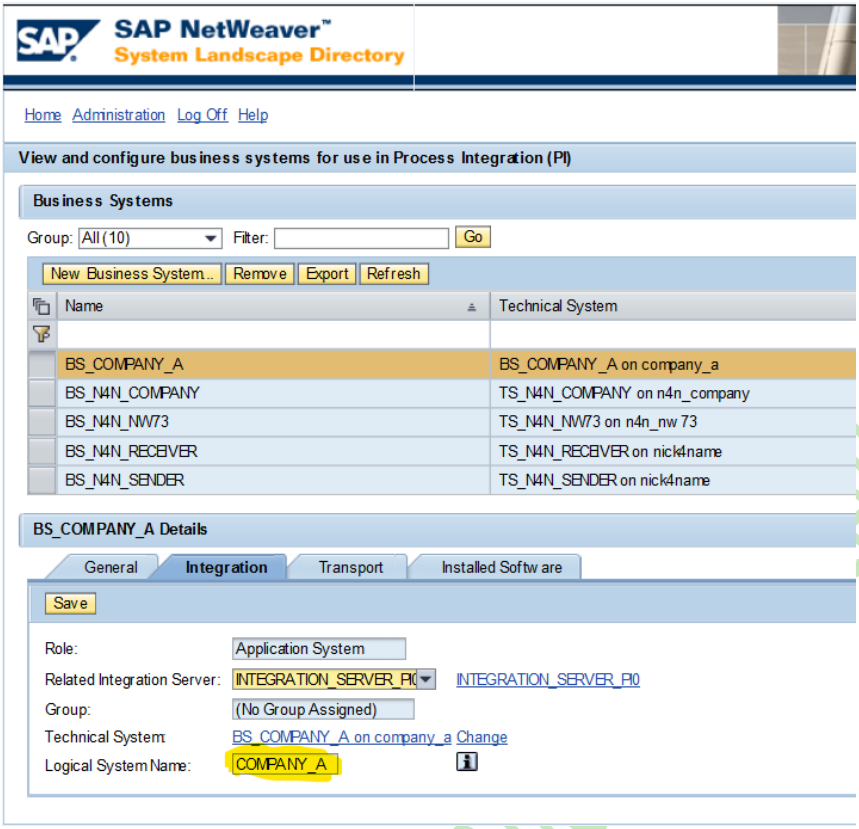
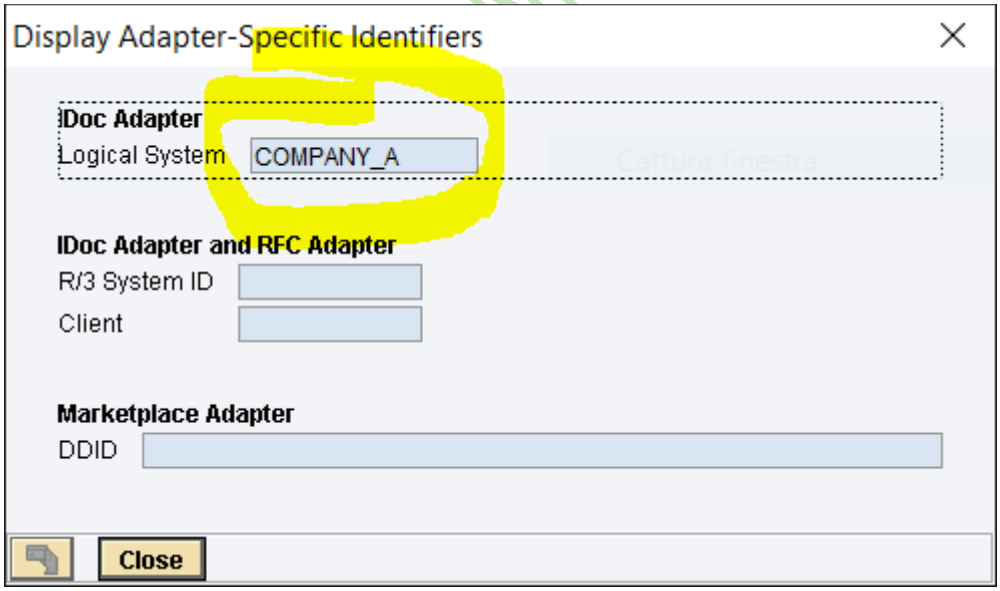
Configurazione System Landscape Directory

Abbinamento Business System – Logical System



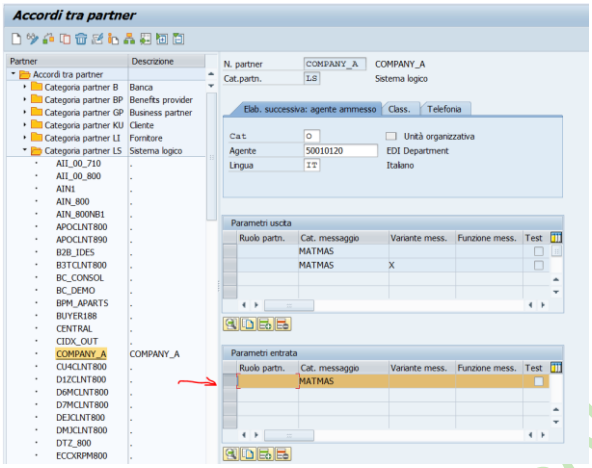


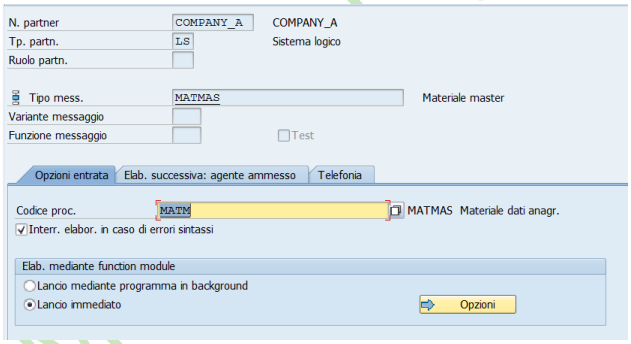
Configurazione lato ECC

[BD64] Modello di distribuzione

Training MATMAS to/from PI0	N4N_MATMAS
Nick4Name s.a.s	N4N_SAS
IDES ALE Central system (client 800)	V17CLNT800
SAP PI Nick4Name	PI0CLNT001
MATMAS	Material master
DEBMAS	Customer master data distribution

[WE20] Partner Profile





Esempio trasformazione

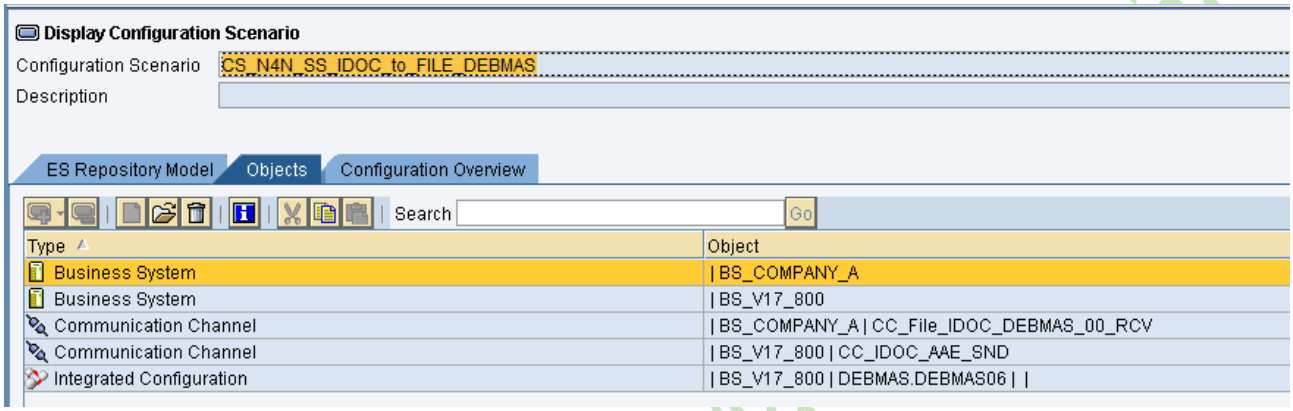
```
<?xml version="1.0" encoding="UTF-8"?>
- <ns1:MT_Material xmlns:ns2="urn:nick4name.eu:BIT400:A:File"
  xmlns:ns1="urn:nick4name.eu:BIT400:A:IDOC2">
      <MaterialID>2017</MaterialID>
      <IndustrySector>AX</IndustrySector>
      <BaseUnit>PZ</BaseUnit>
      <MaterialGroup>1</MaterialGroup>
      <MaterialType>MPA</MaterialType>
    - <Description>
          <ns2:Language>IT</ns2:Language>
          <ns2:Description>00 - MATERIALE DA
              FILE</ns2:Description>
      </Description>
  </ns1:MT_Material>
```

```
<?xml version="1.0" encoding="UTF-8"?>
- <MATMAS05>
    - <IDOC BEGIN="1">
        - <EDI_DC40 SEGMENT="1">
            <IDOCTYP>MATMAS05</IDOCTYP>
            <MESTYP>MATMAS</MESTYP>
            <SNDPOR>SAPPI0</SNDPOR>
            <SNDPRT>LS</SNDPRT>
            <SNDPRN>COMPANY_A</SNDPRN>
            <RCVPOR>SAPV17</RCVPOR>
            <RCVPRT>LS</RCVPRT>
            <RCVPRN>V17CLNT800</RCVPRN>
          </EDI_DC40>
        - <E1MARAM SEGMENT="1">
            <MSGFN>009</MSGFN>
            <MATNR>000000000000002017</MATNR>
            <MTART>001</MTART>
            <MBRSH>A</MBRSH>
            <MATKL>001</MATKL>
            <MEINS>PCE</MEINS>
          - <E1MAKTM SEGMENT="1">
              <MSGFN>009</MSGFN>
              <SPRAS>ITA</SPRAS>
              <MAKTX>00 - MATERIALE DA FILE</MAKTX>
            </E1MAKTM>
          </E1MARAM>
      </IDOC>
  </MATMAS05>
```

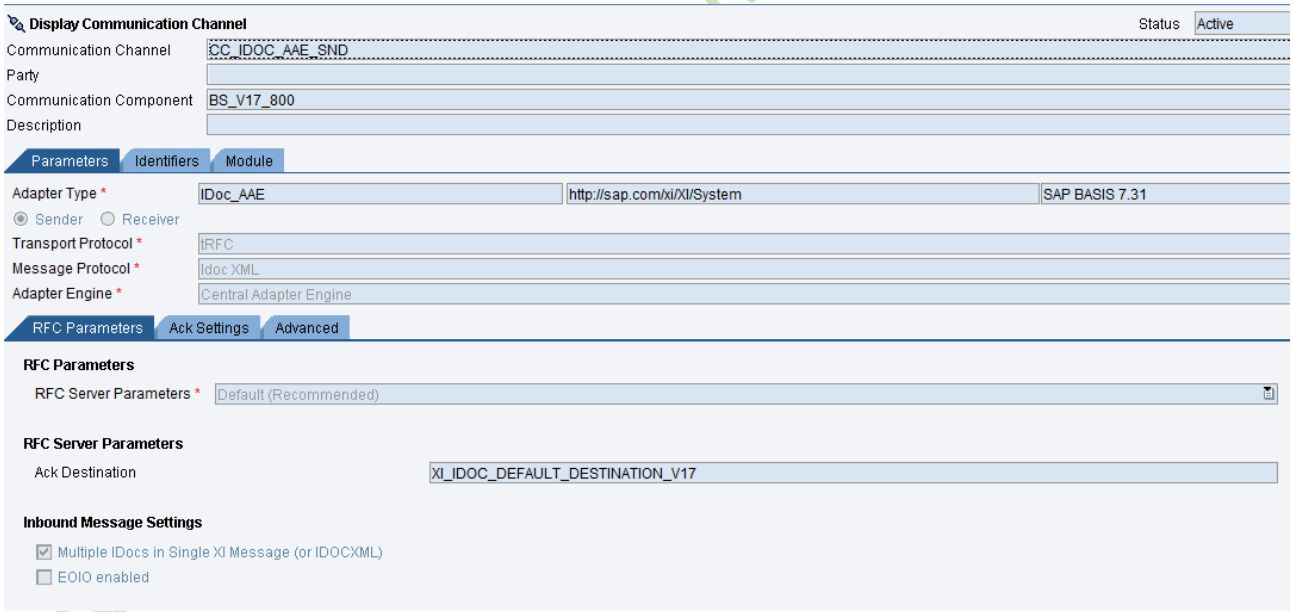
Scenario CS_N4N_SS_IDOC_to_FILE_DEBMAS

Scenario	IDOC --> FILE
Obiettivo	Generazione di file partendo da idoc. Si mostra anche come parametrizzare la generazione del nome file in base a dati contenuti nel payload.

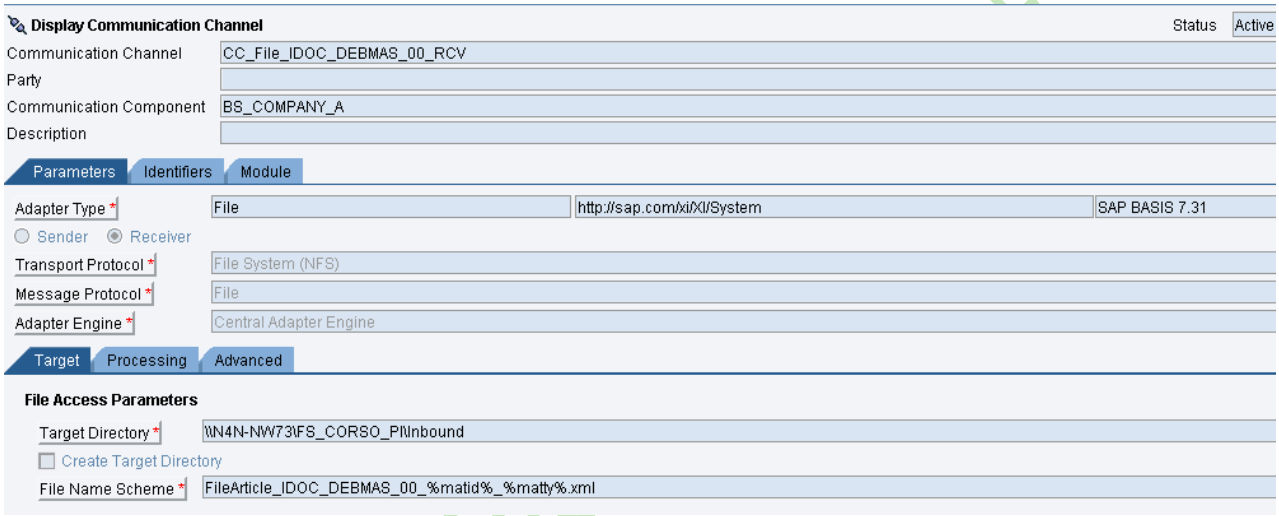
Configurazione lato Configuration



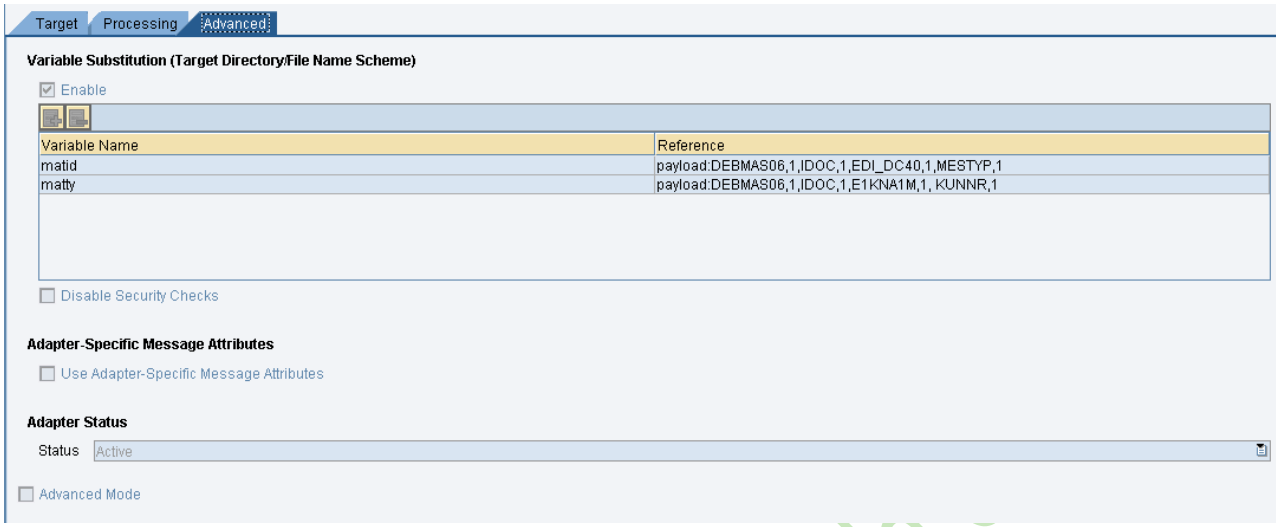
Channel file sender



Channel file receiver

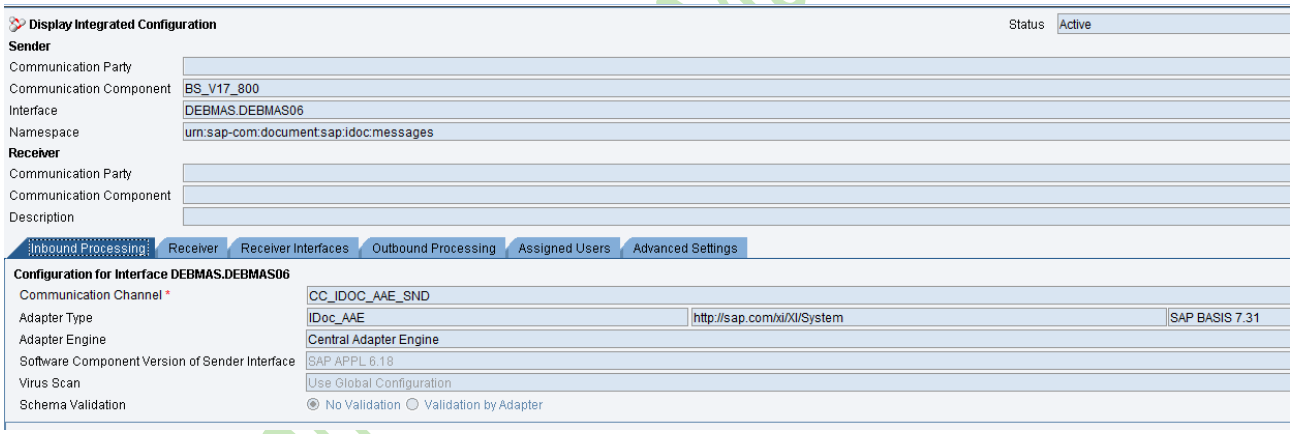


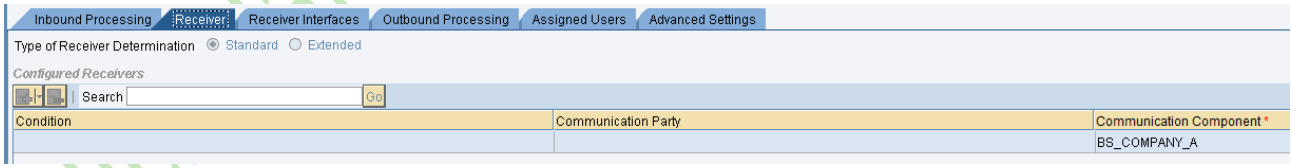
Comm. Chan.	CC_File_IDOC_DEBMAS_00_RCV
Target Dir.	\\N4N-NW73\FS_CORSO_PI\Inbound
File Name Sch.	FileArticle_IDOC_00_%matid%_%matty%_.xml

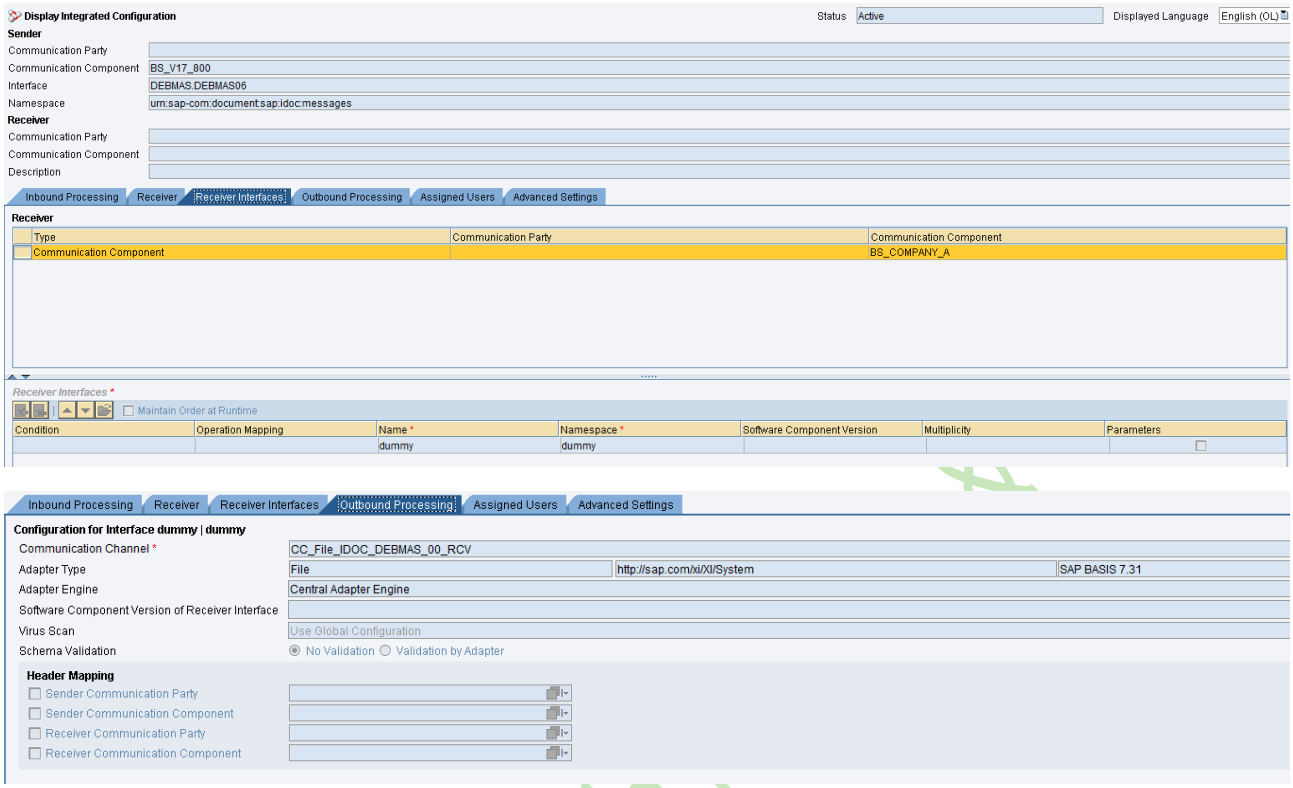


matid	payload:DEBMAS06,1,IDOC,1,EDI_DC40,1,MESTYP,1
matty	payload:DEBMAS06,1,IDOC,1,E1KNA1M,1, KUNNR,1

Integrated Configuration







Configurazione lato Enterprise Service Builder

Nessuna configurazione implementata

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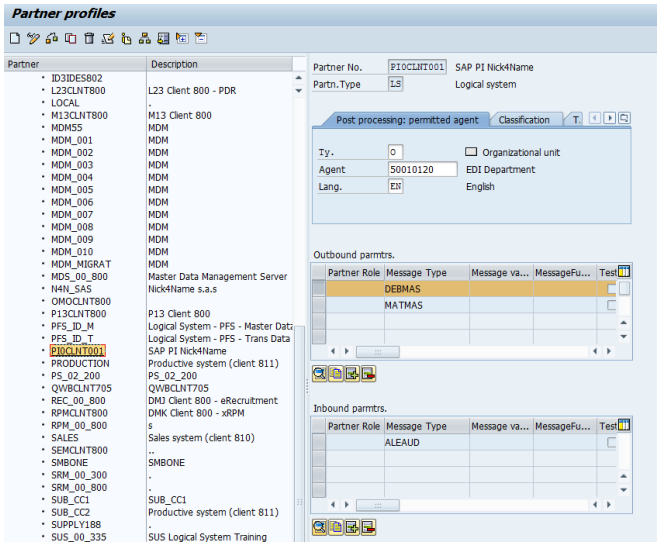
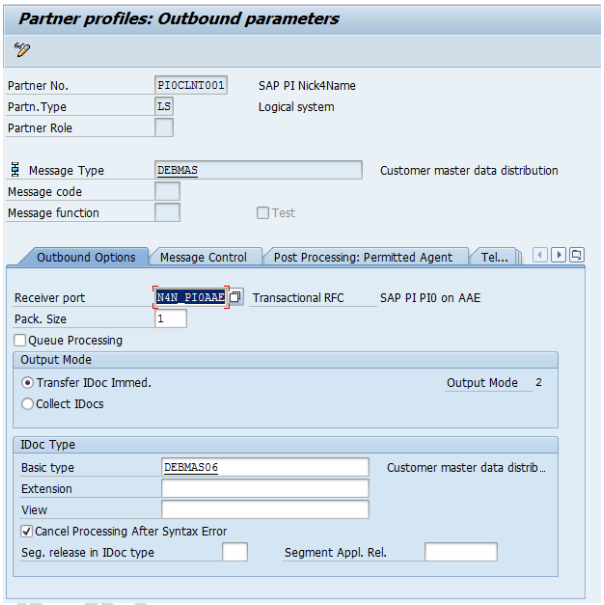
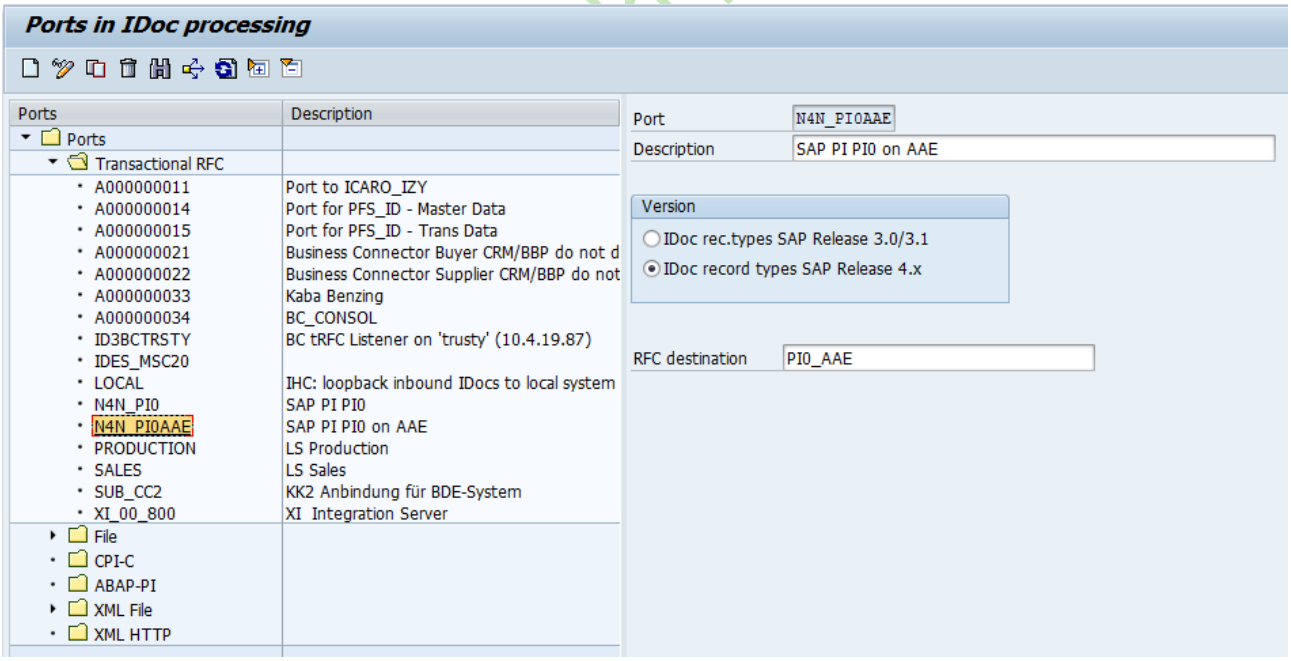
Configurazione lato ECC

[WE20] Partner Profile

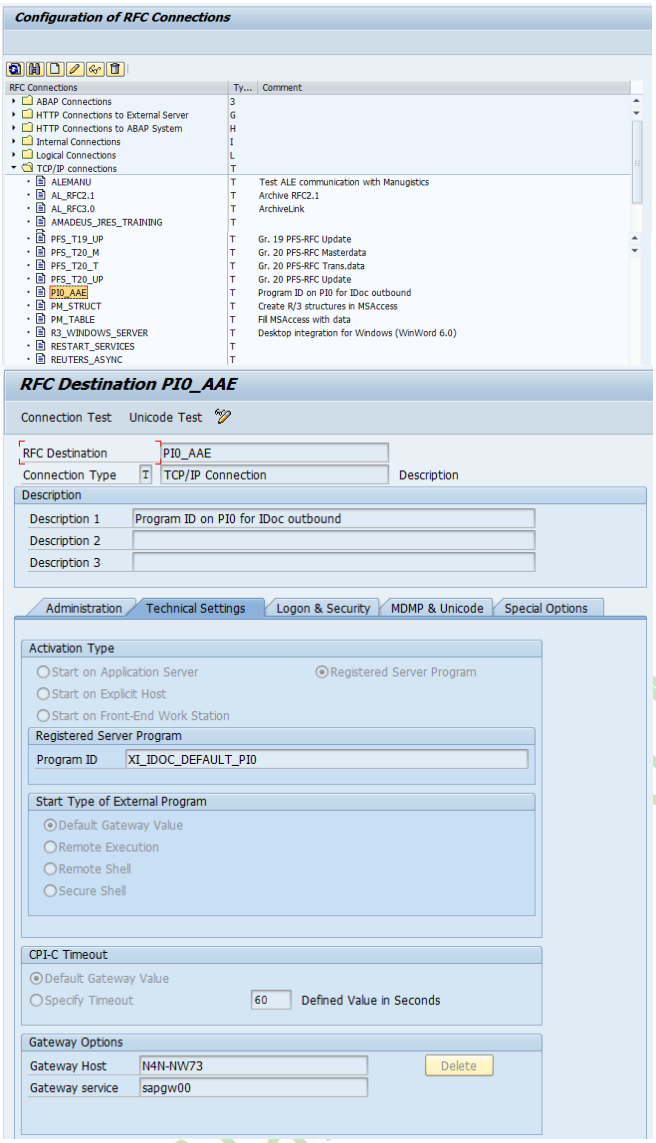


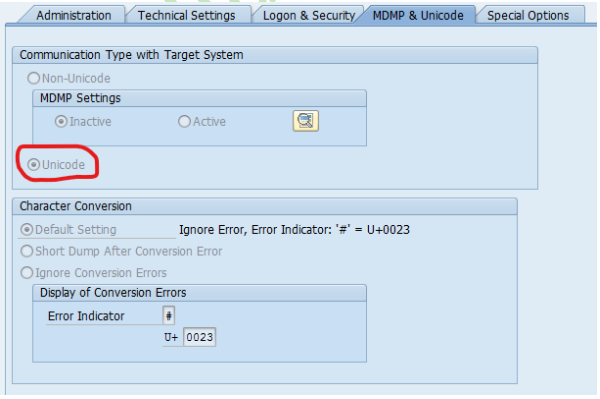


[WE21] Definizione porte IDoc



[SM59] Configurazione Destinazioni RFC





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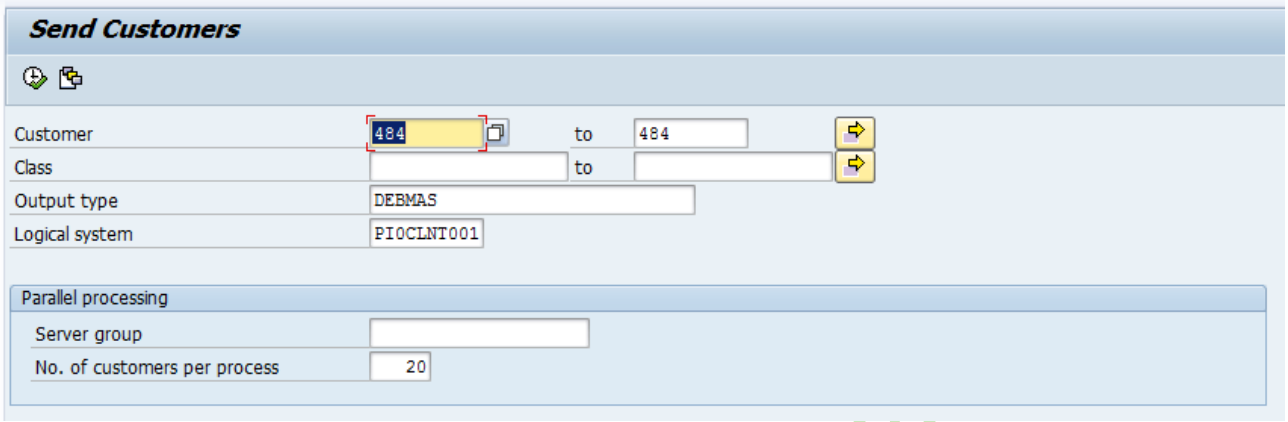
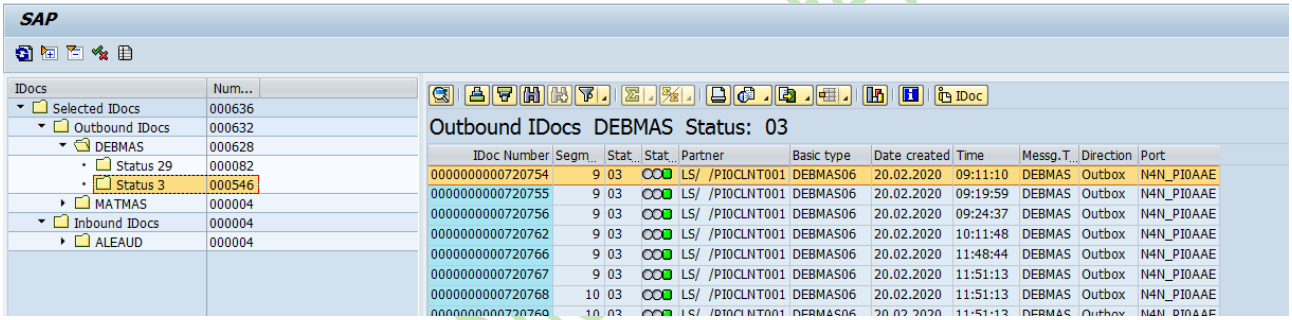
Test scenario da ECC

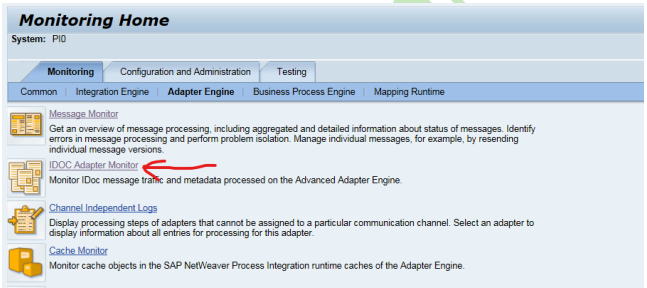
[BD12] Send Customers

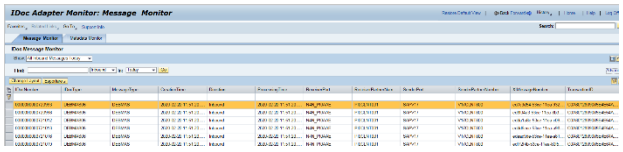


[WE02] IDoc monitor

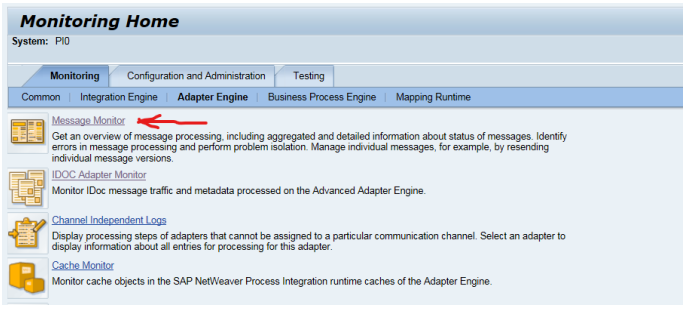


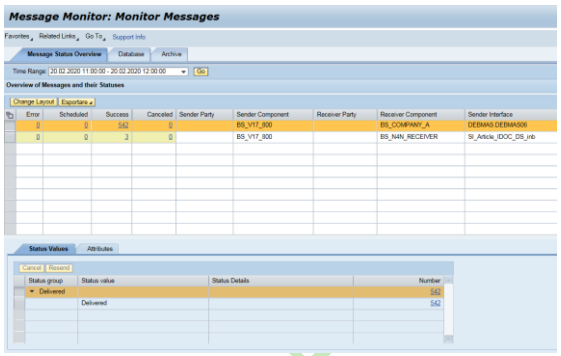
IDoc Adapter Monitor (Java)



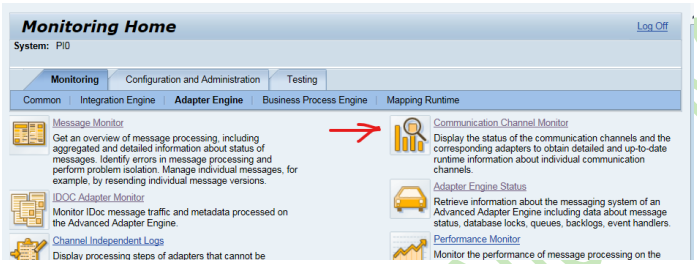


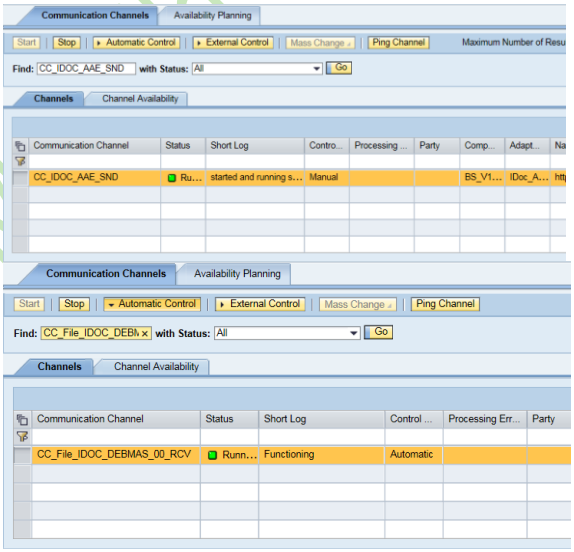
Message Monitor (Java)





Communication Channel Monitor (Java)



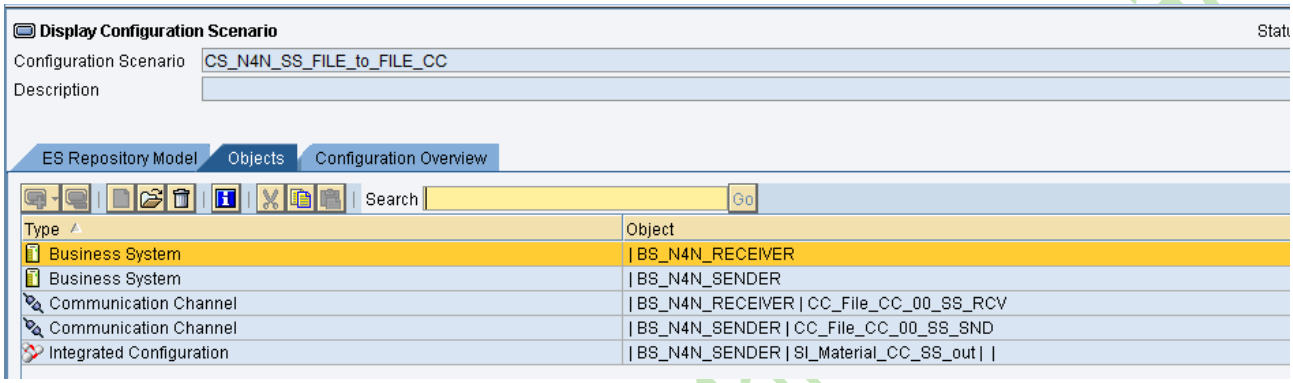


Nick4Name di Nicola Martella & F.

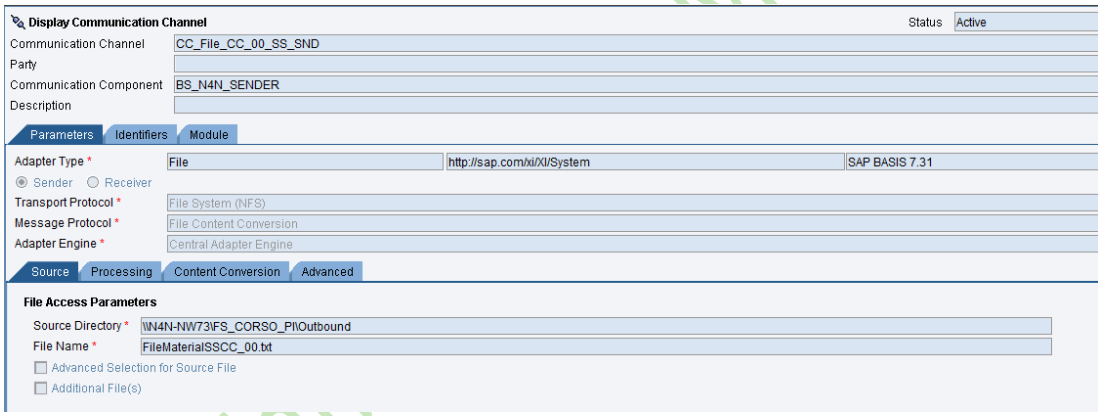
Scenario CS_N4N_SS_FILE_to_FILE_CC

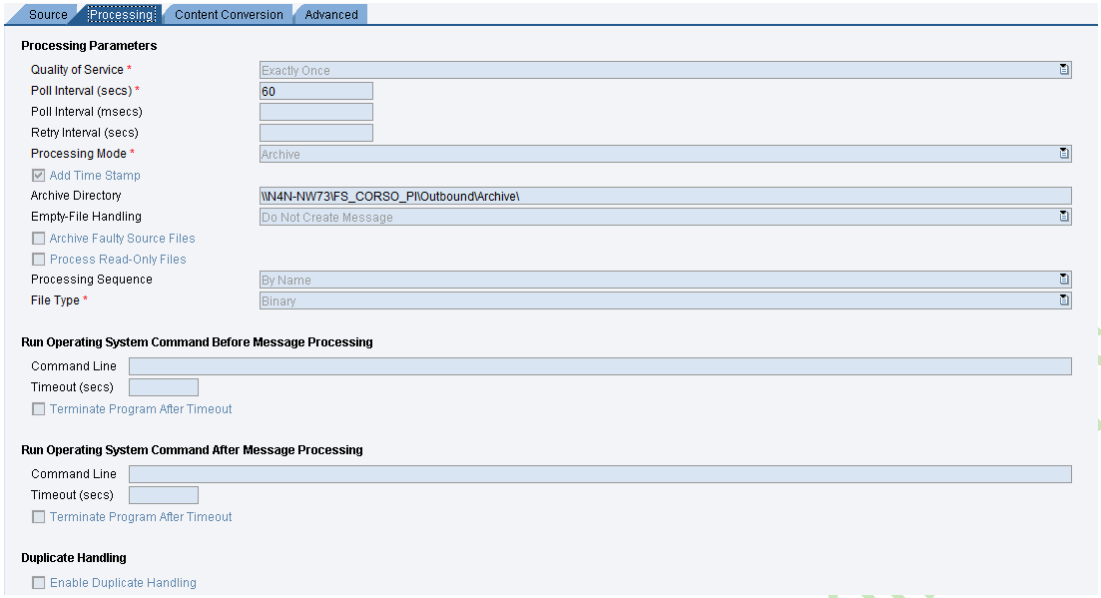
Scenario	FILE --> FILE
Obiettivo	Conversione da flat file a flat file passando dalla Content Conversion dei rispettivi communication channels

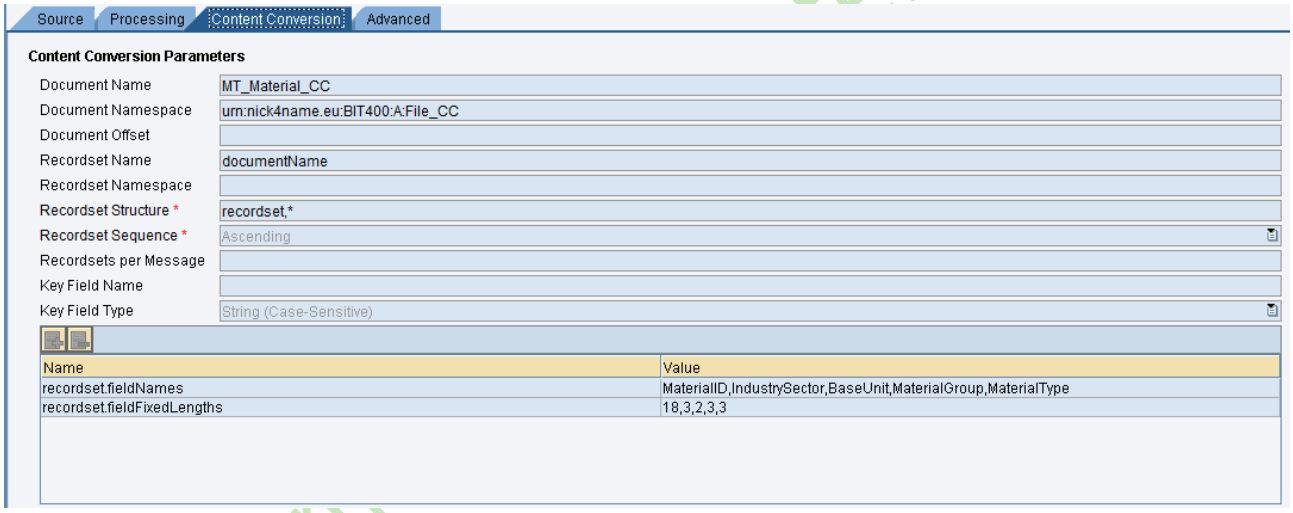
Configurazione lato Configuration



Channel file sender

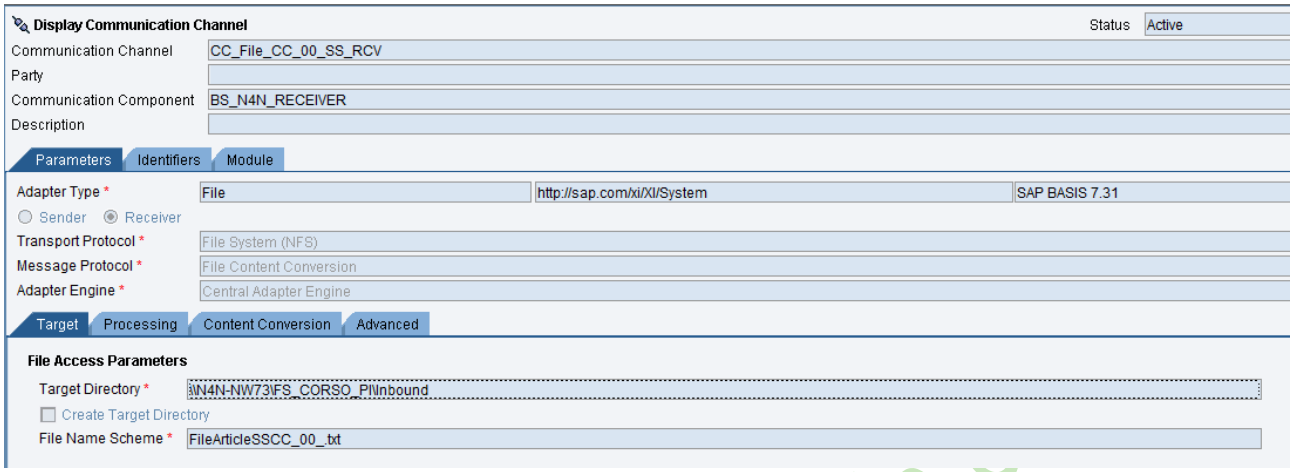


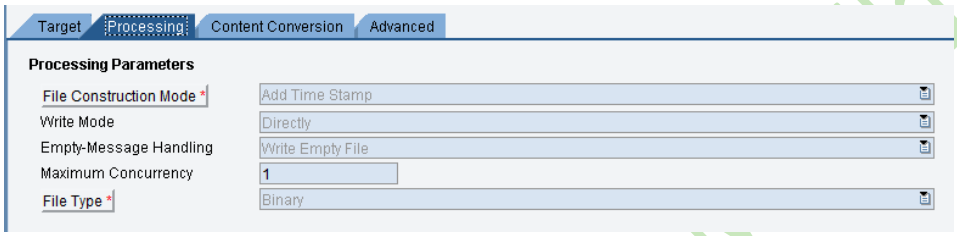


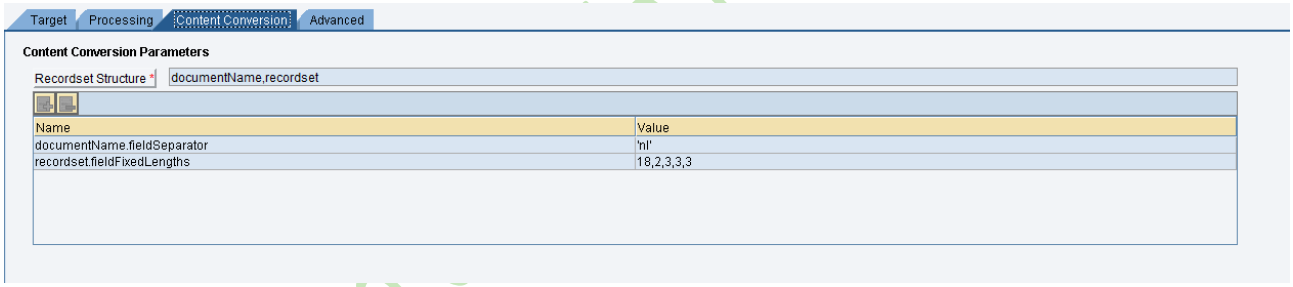


Cc file sender	CC_File_CC_00_SS_SND
Directory	\\N4N-NW73\FS_CORSO_PI\Outbound
Filename	FileMaterialSSCC_00.txt
Document name	MT_Material_CC
Document namespace	urn:education.com:BIT400:A
Recordset name	documentName
Recorset structure	recordset,*
recordset.fieldNames	MaterialID,IndustrySector,BaseUnit,MaterialGroup,MaterialType
recordset.fieldFixedLengths	18,3,2,3,3

Channel file receiver

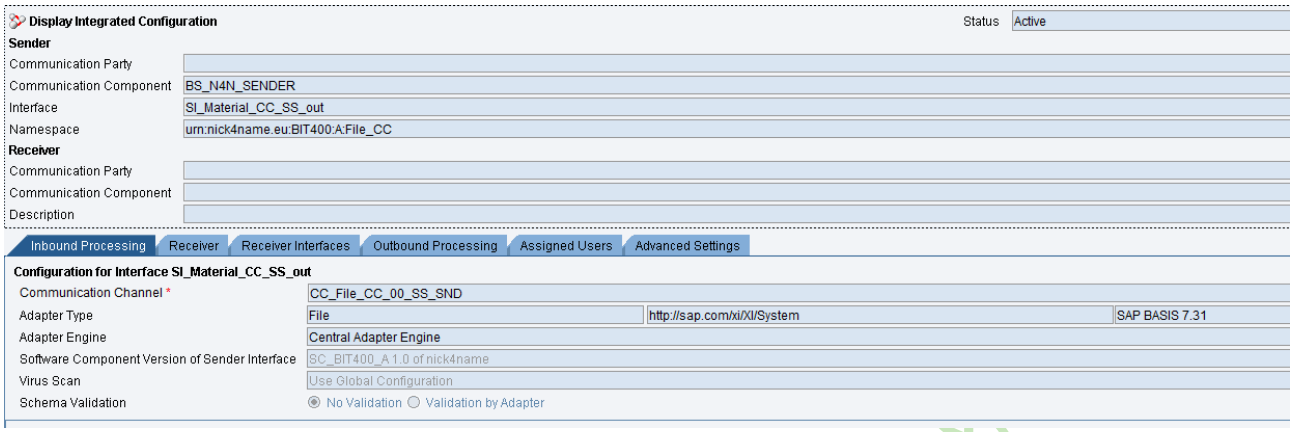


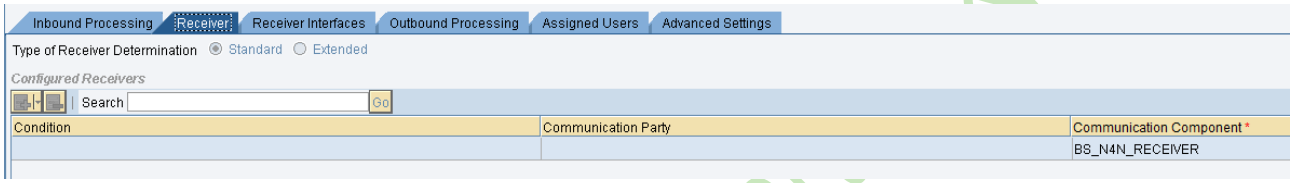


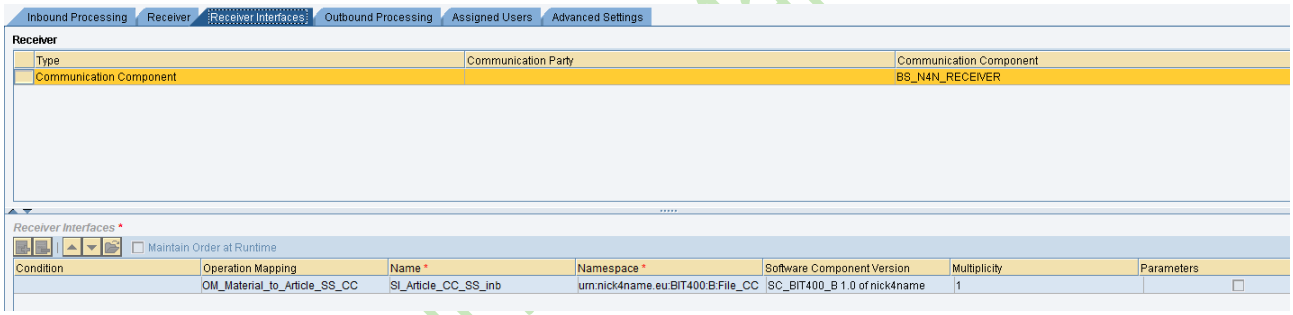


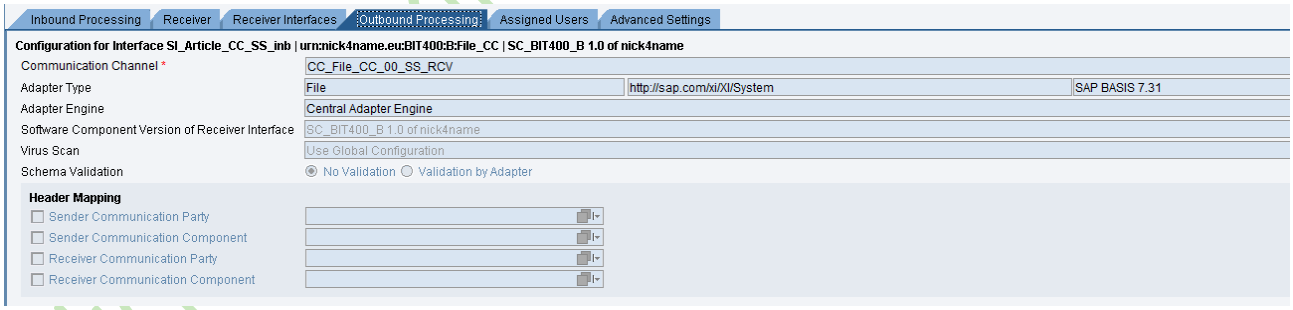
Cc file receiver	CC_File_CC_00_SS_RCV
Directory	\\N4N-NW73\FS_CORSO_PI\Inbound
Filename	FileArticleSSCC_00_.txt
Recordset structure	documentName,recordset
documentName.fieldSeparator	'nl'
recordset.fieldFixedLengths	18,2,3,3,3

Integrated configuration



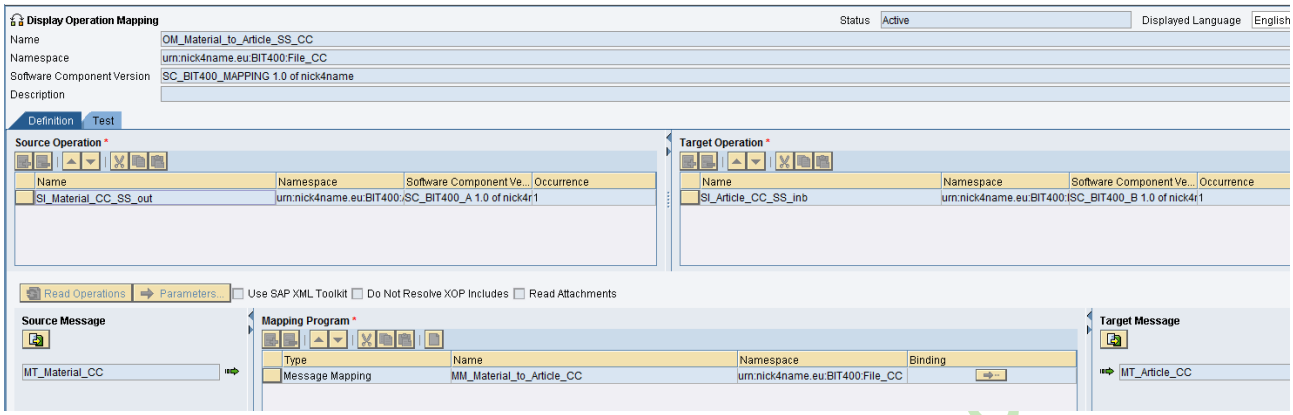




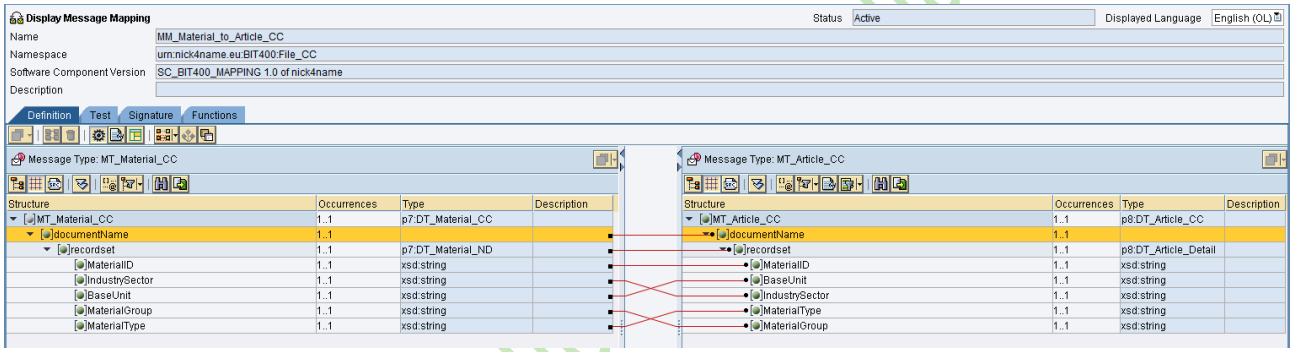


Configurazione lato Enterprise Service Builder

Operation mapping



Message mapping

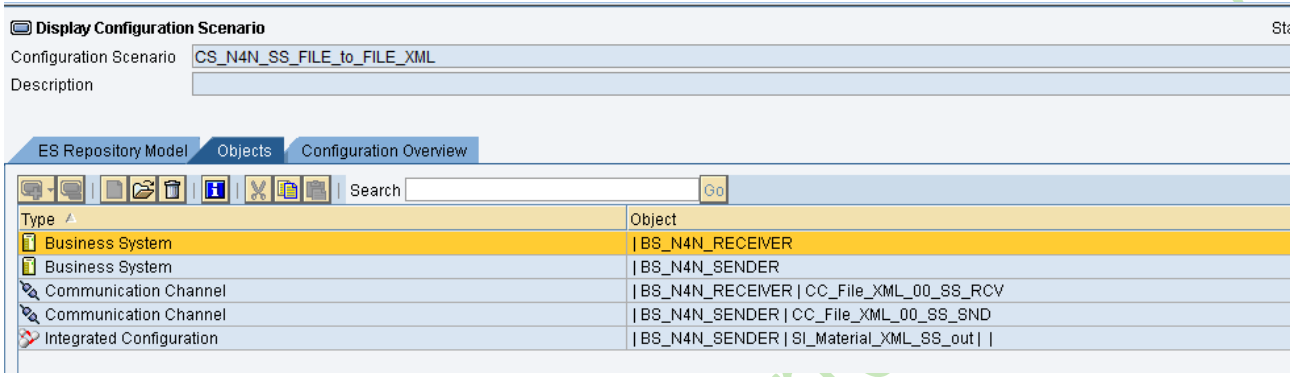


Nick4Name di Nicola Martella

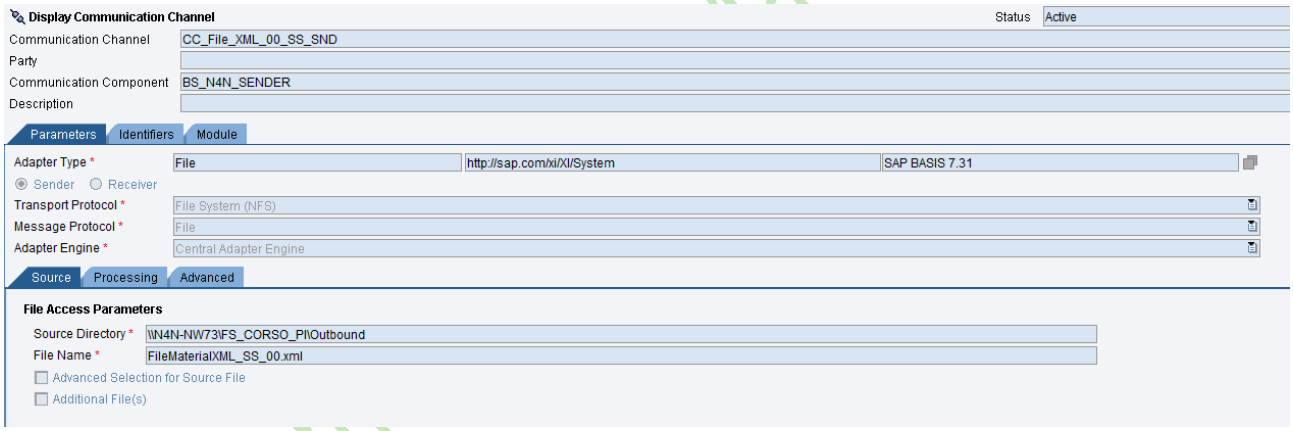
Scenario FILE_to_FILE_XML_00

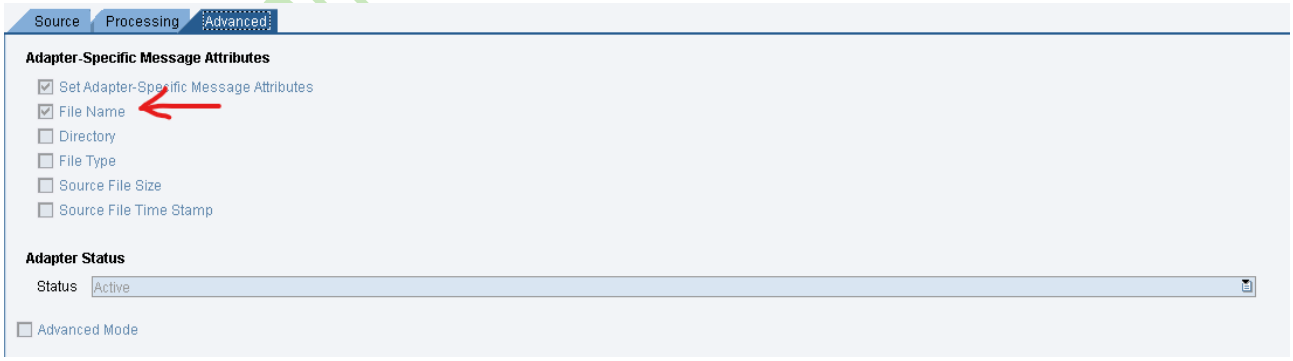
Scenario	FILE --> FILE
Obiettivo	Determinazione filename receiver via mapping

Configurazione lato Configuration

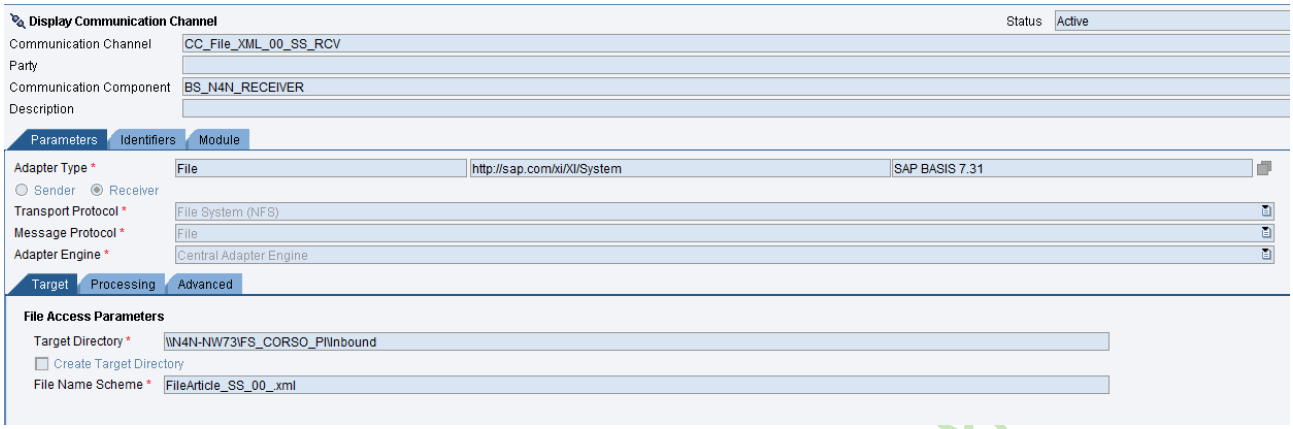


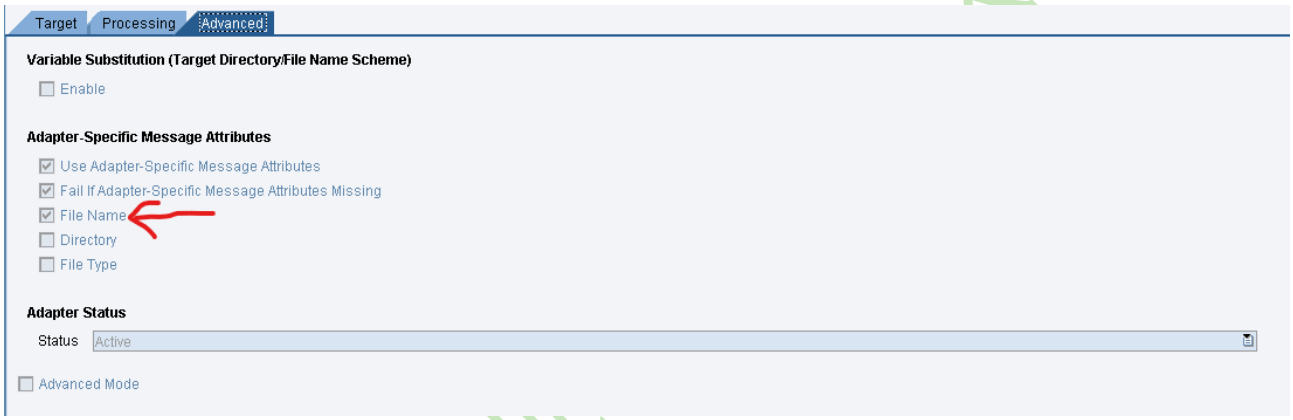
Channel sender file



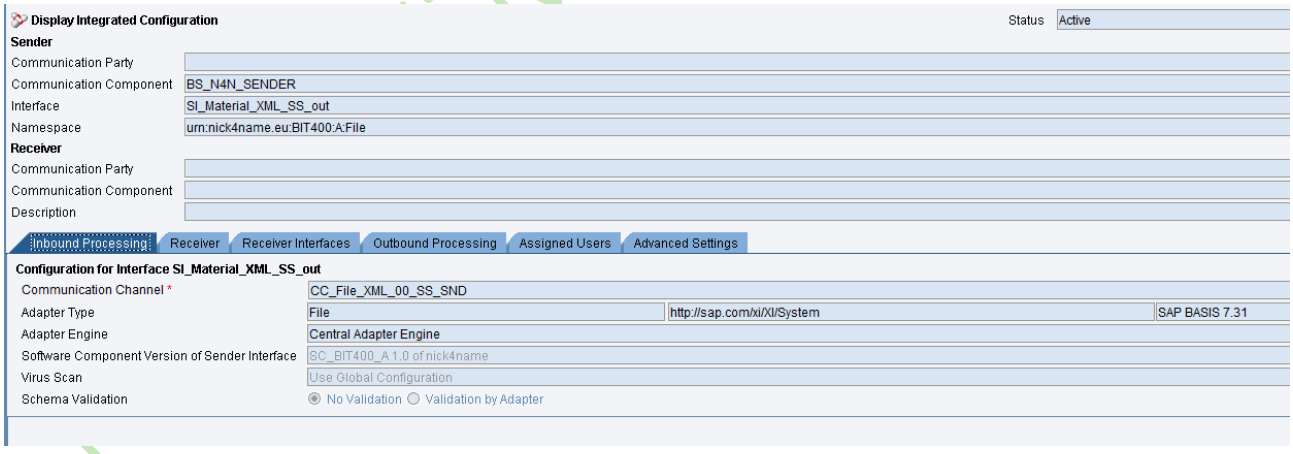


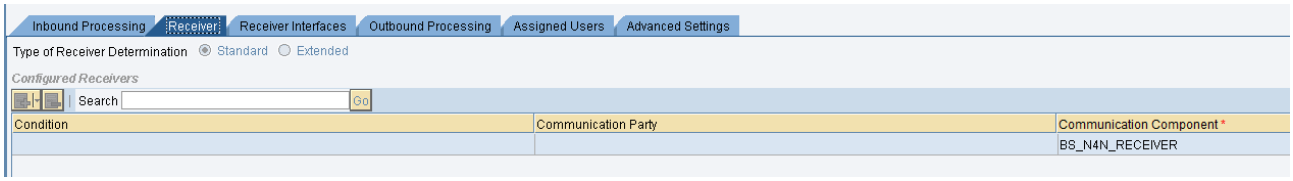
Channel receiver file

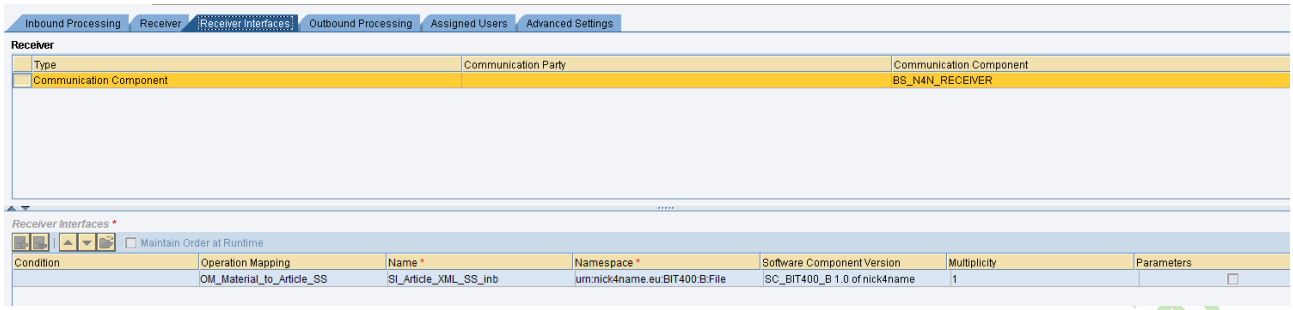


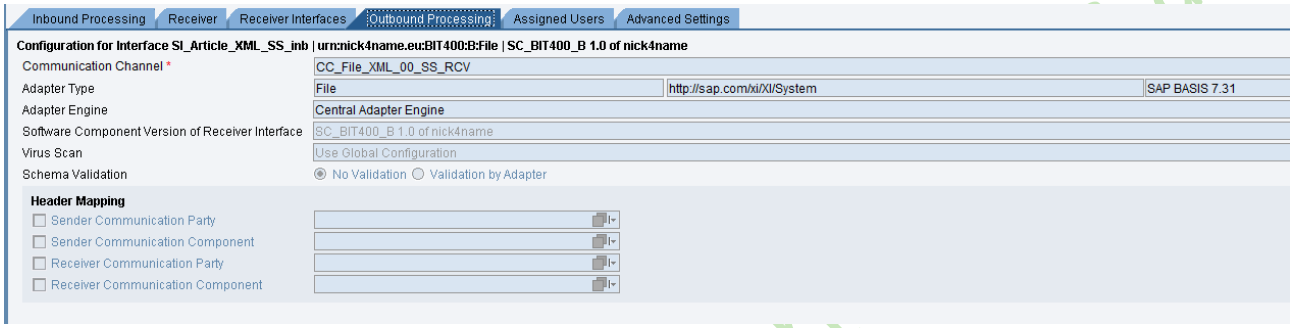


Integrated Configuration



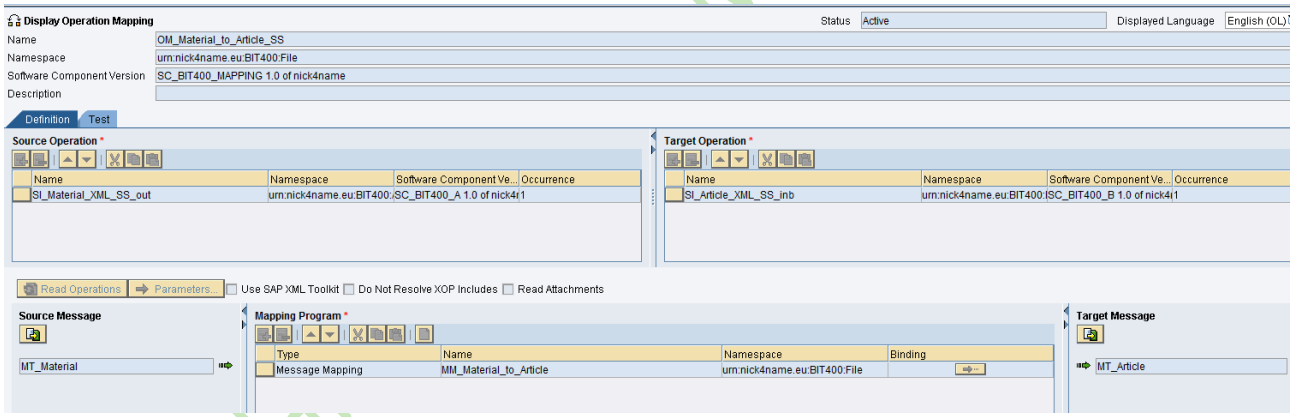






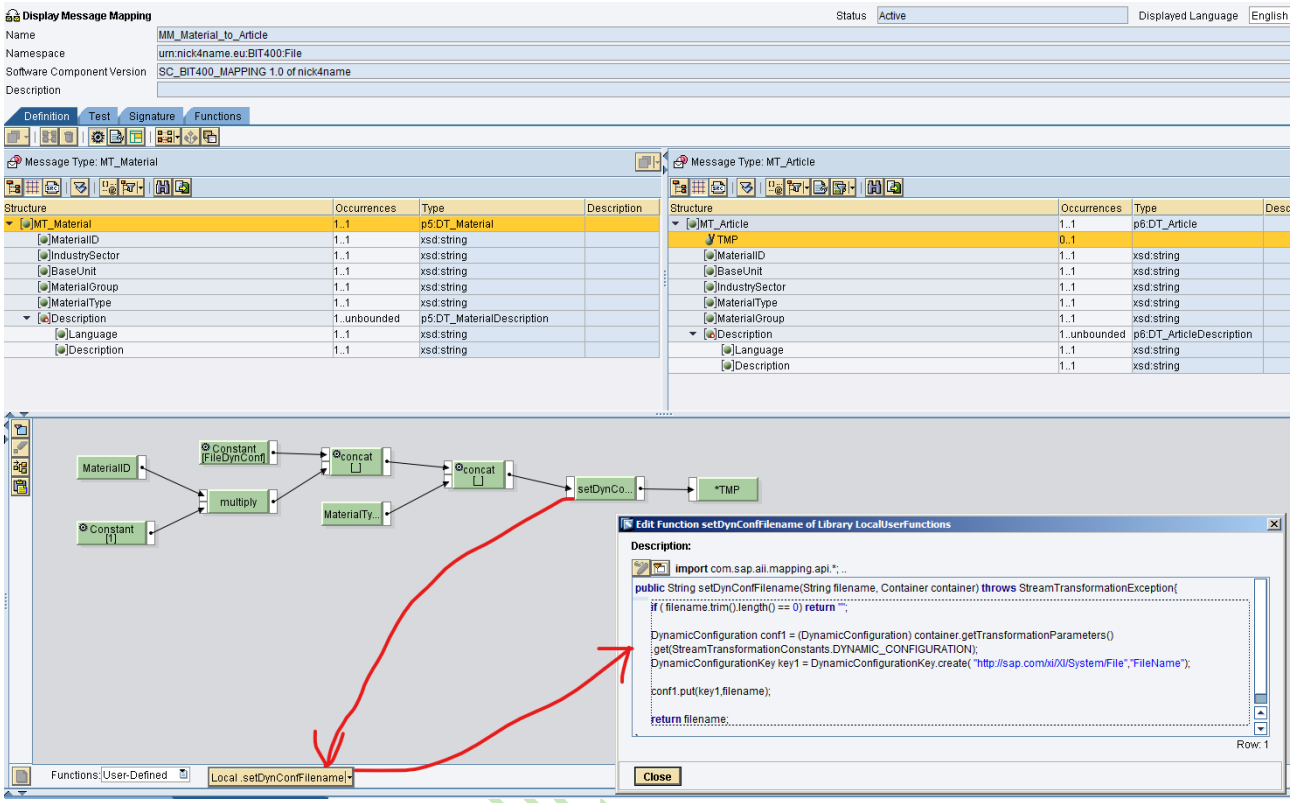
Configurazione Enterprise Service Builder

Operation Mapping



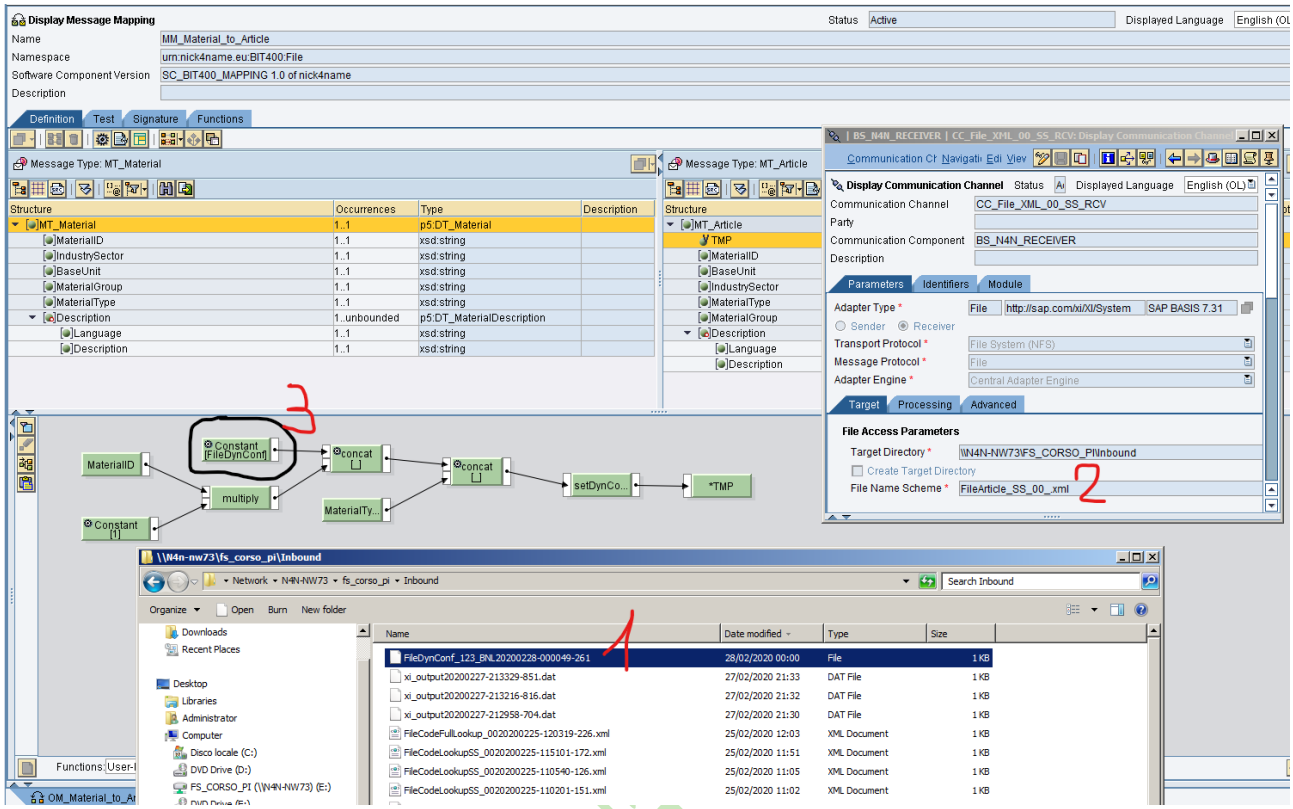
Message Mapping

Costruzione del filename




```
public String setDynConfFilename(String filename, Container container) throws StreamTransformationException{
  if ( filename.trim().length() == 0) return "";

  DynamicConfiguration conf1 = (DynamicConfiguration) container.getTransformationParameters()
    .get(StreamTransformationConstants.DYNAMIC_CONFIGURATION);
  DynamicConfigurationKey key1 = DynamicConfigurationKey.create(
    "http://sap.com/xi/XI/System/File","FileName");

  conf1.put(key1,filename);

  return filename;
}
```

Risultato del test



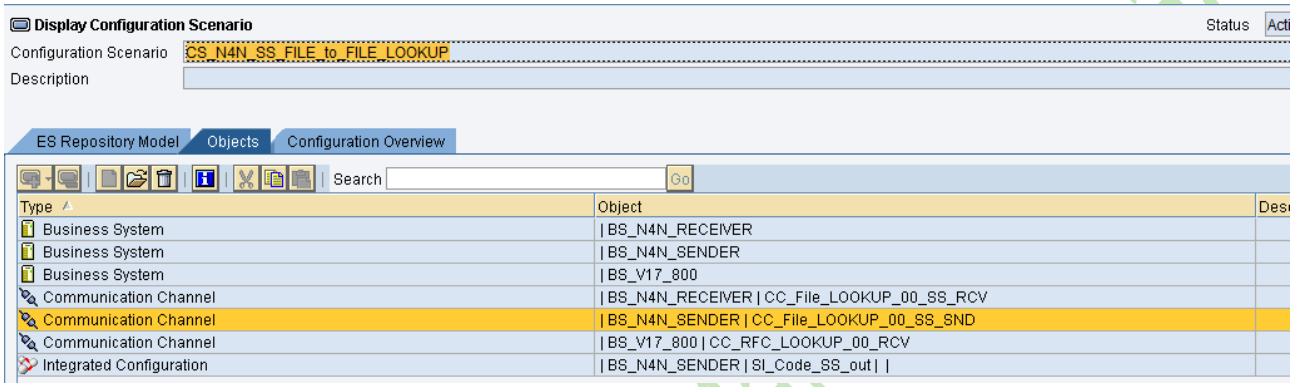
Il file prodotto, **1**, si chiama **FileDynConf*** benché nel canale fosse impostato *FileArticle_SS_00_.xml*, **2**, perché manipolato tramite mapping, **3**.

Nick4Name di Nicola

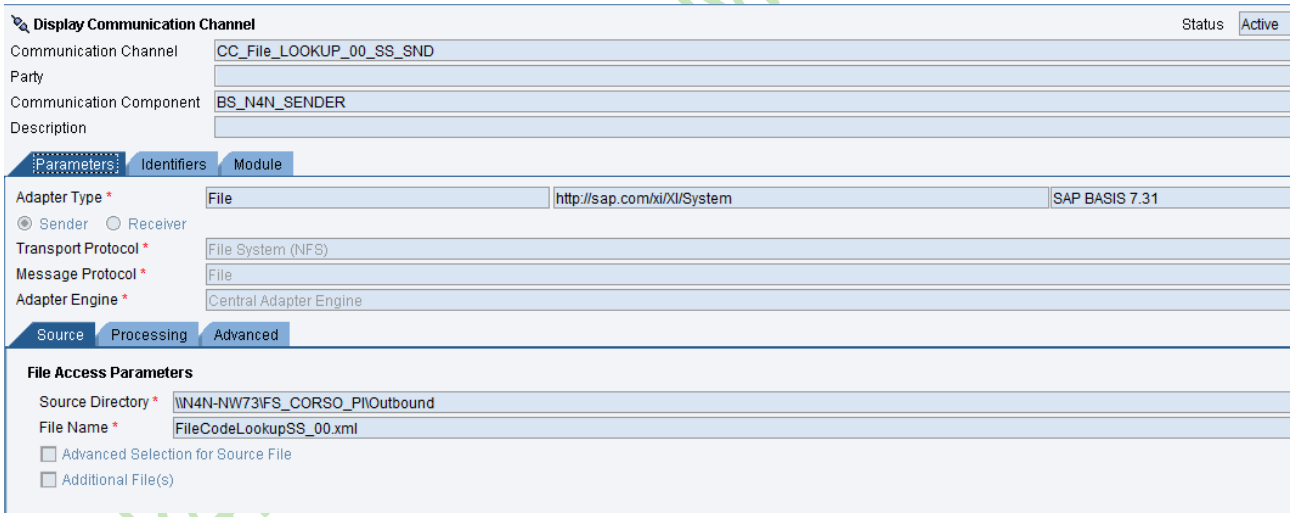
Scenario CS_N4N_SS_FILE_to_FILE_LOOKUP

Scenario	FILE --> FILE
Obiettivo	Conversione da file a file con il concorso di una funzione RFC, lookup, per la trasformazione di un dato.

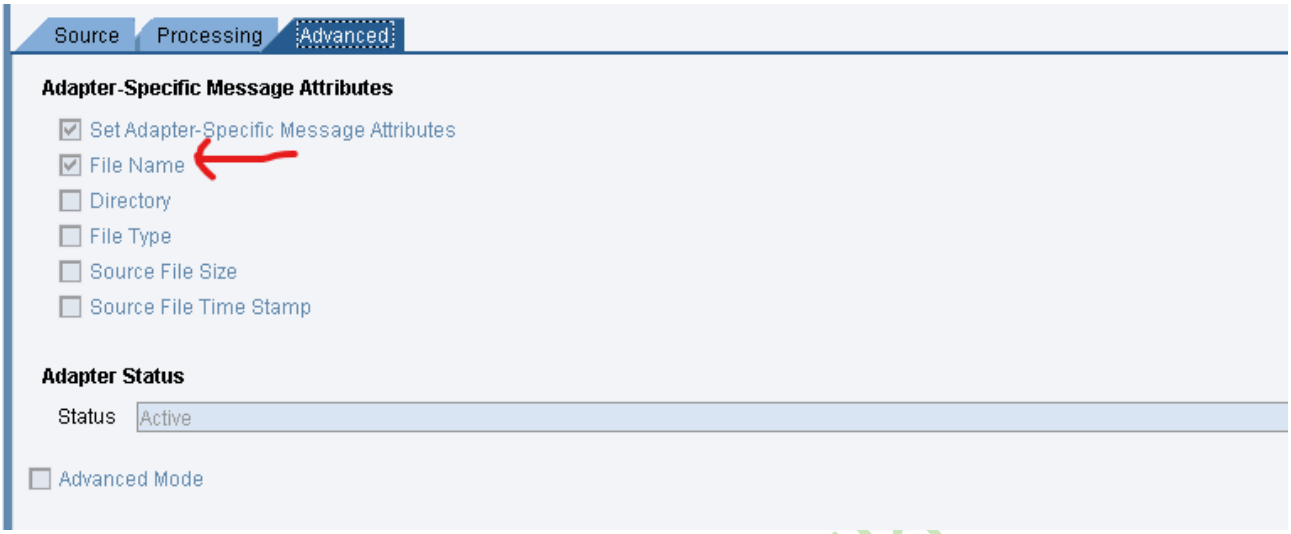
Configurazione lato Configuration



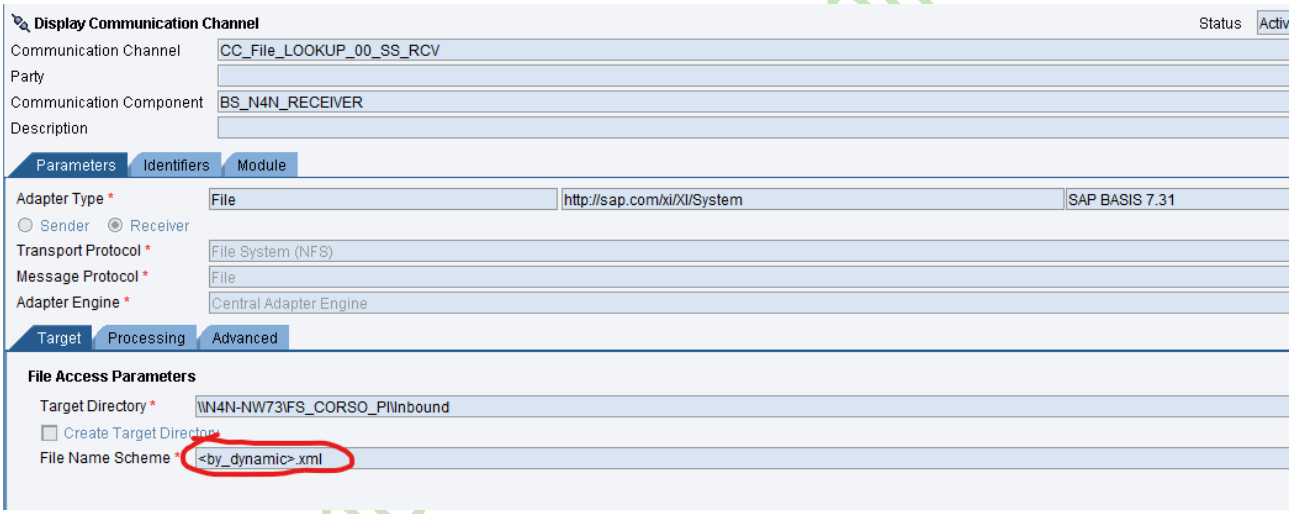
Channel sender file



Cc sender FILE	CC_File_LOOKUP_00_SS_SND
Path	\\N4N-NW73\FS_CORSO_PI\Outbound
Filename	FileCodeLookupSS_00.xml

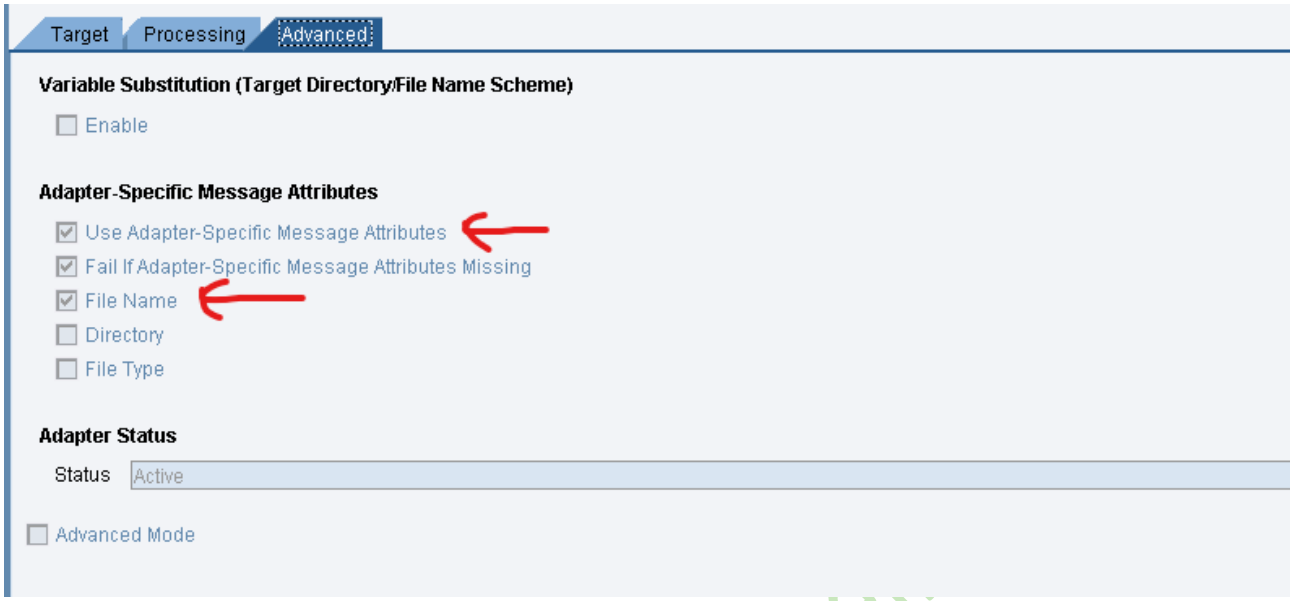


Channel receiver file

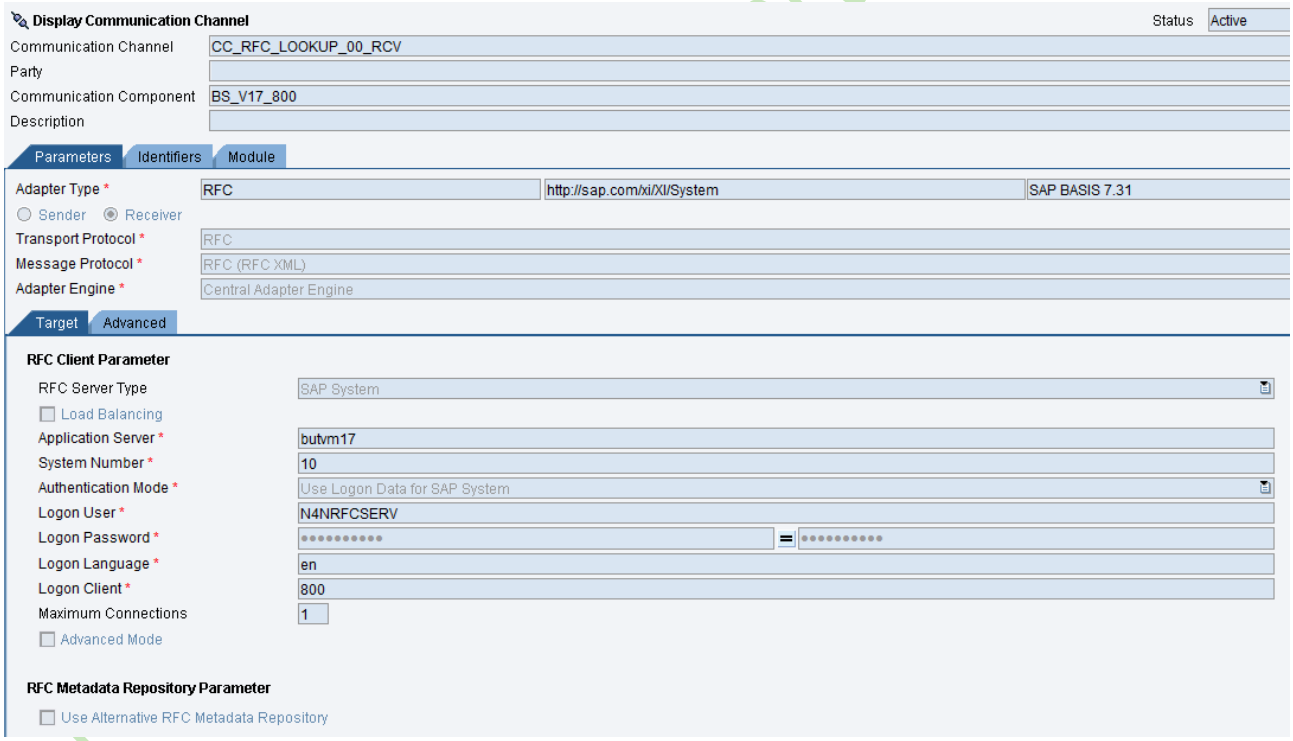


Cc file receiver	CC_File_LOOKUP_00_SS_RCV
Path	\\N4N-NW73\FS_CORSO_PI\Inbound
Filename	<by_dynamic>.xml

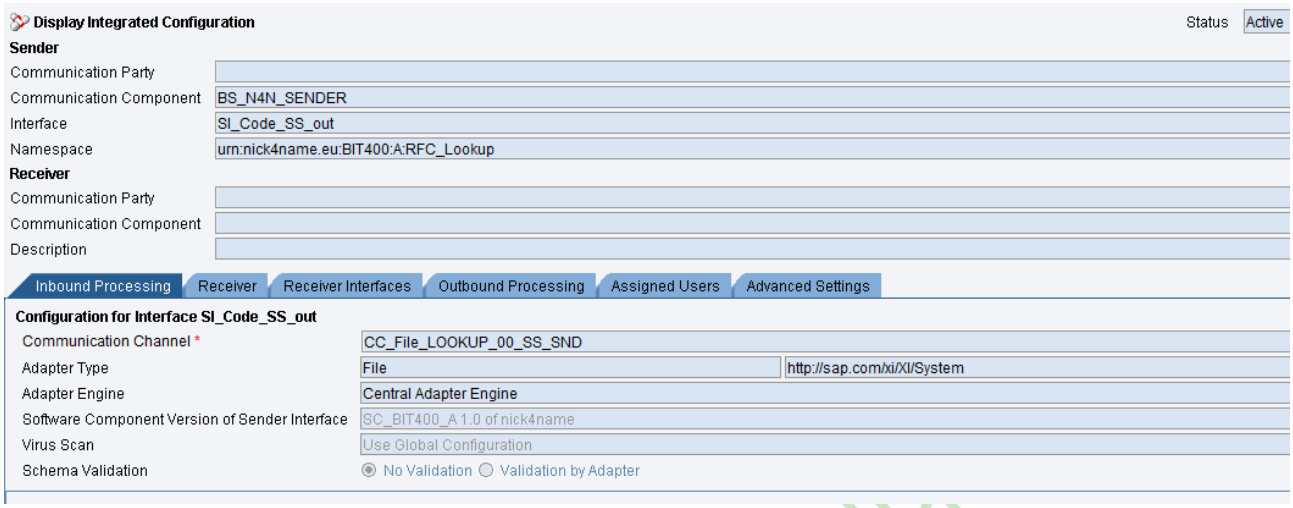
Nick4Name

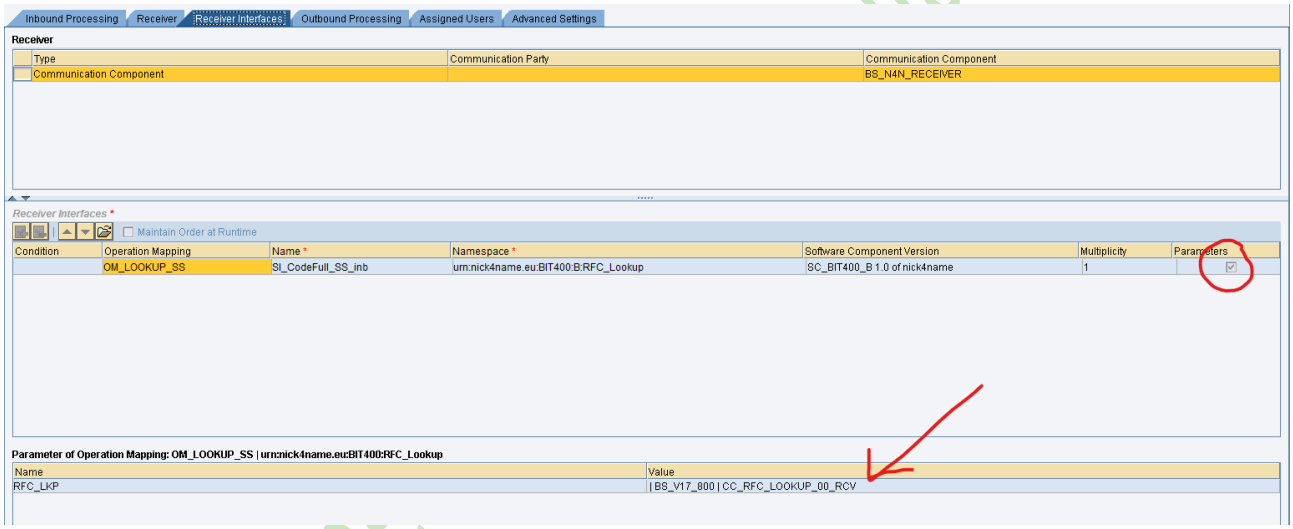


Channel RFC lookup receiver



Integrated configuration

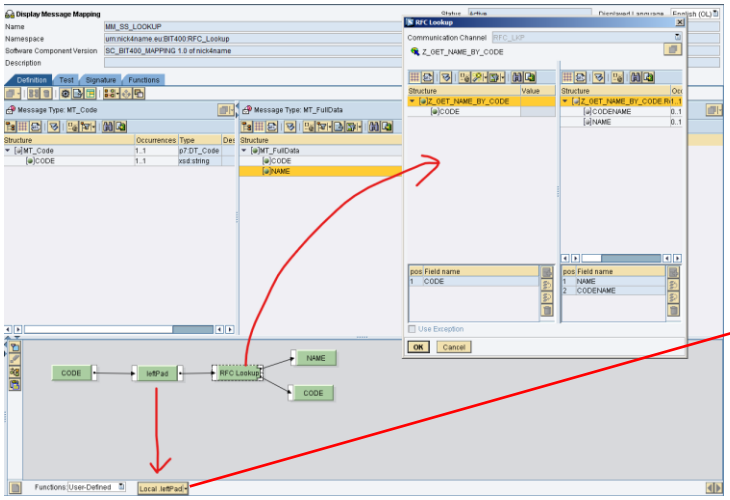


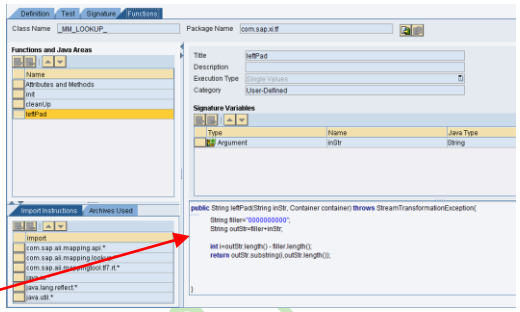


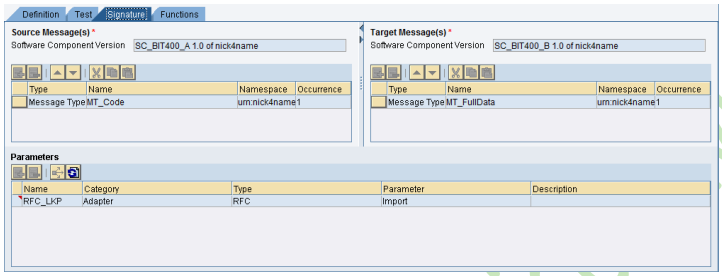
Nick4Name

Configurazione lato Enterprise Service Builder

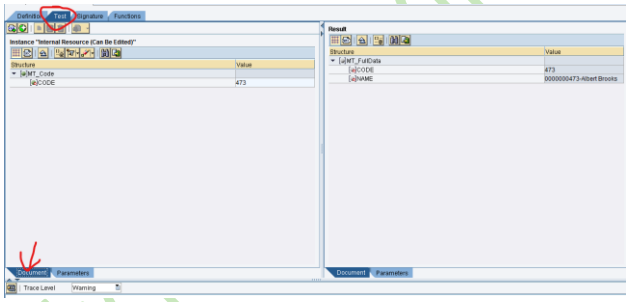
Message Mapping

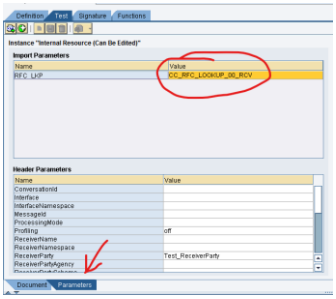






Test del mapping in ambiente di sviluppo



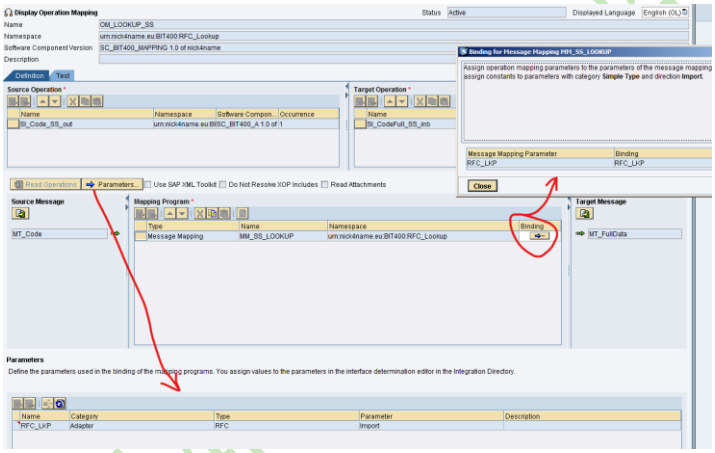


RFC ABAP

TCode [SE37]

```
FUNCTION Z_GET_NAME_BY_CODE.
*"----------------------------------------------------------------------
*"*"Local Interface:
*"  IMPORTING
*"     VALUE(CODE) TYPE  KUNNR
*"  EXPORTING
*"     VALUE(CODENAME) TYPE  NAME1
*"     VALUE(NAME) TYPE  CHAR50
*"----------------------------------------------------------------------

  data: wa_name type name1.
  data: wa_city type city.

  select single name1 ort01 from kna1 into (wa_name, wa_city) where kunnr = code.
  if sy-subrc = 4.
    wa_name = 'NOT FOUND'.
  endif.

  concatenate WA_NAME '-' WA_CITY into name.
  move code to codename.


ENDFUNCTION.
```

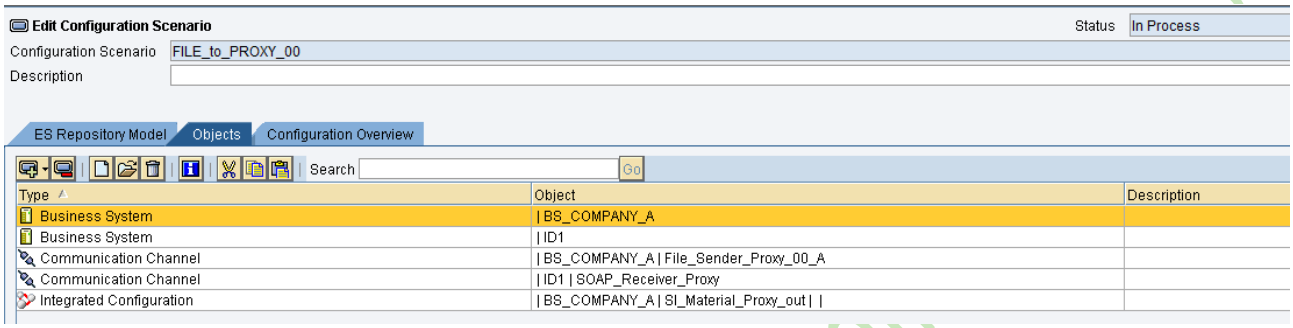
Operation mapping



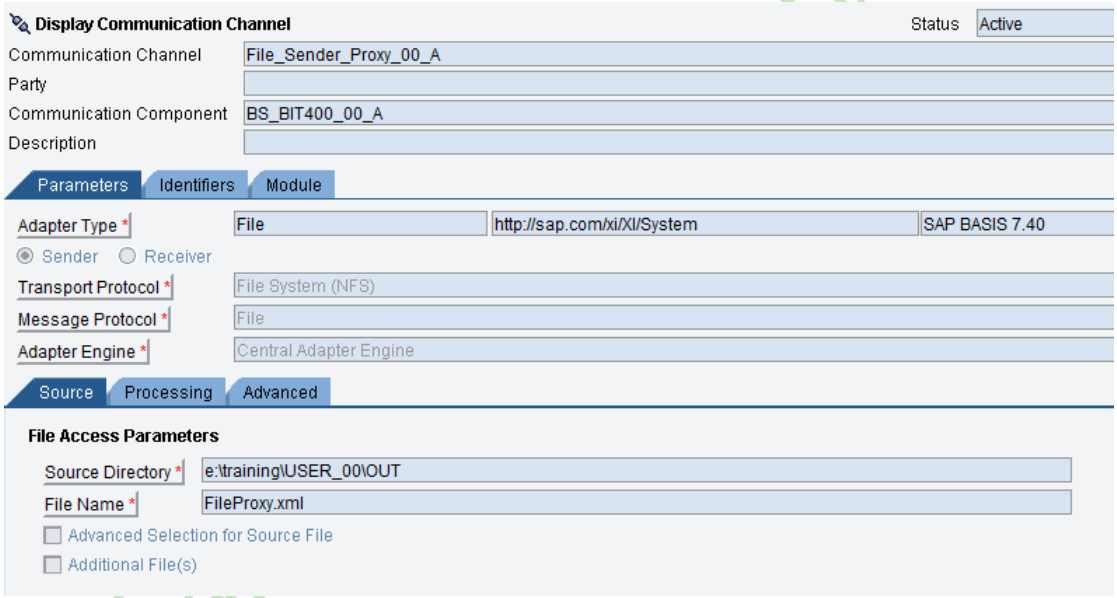
Scenario FILE_to_PROXY_00

Scenario	FILE --> PROXY ABAP
Obiettivo	Elaborazione dati da file tramite ABAP proxy

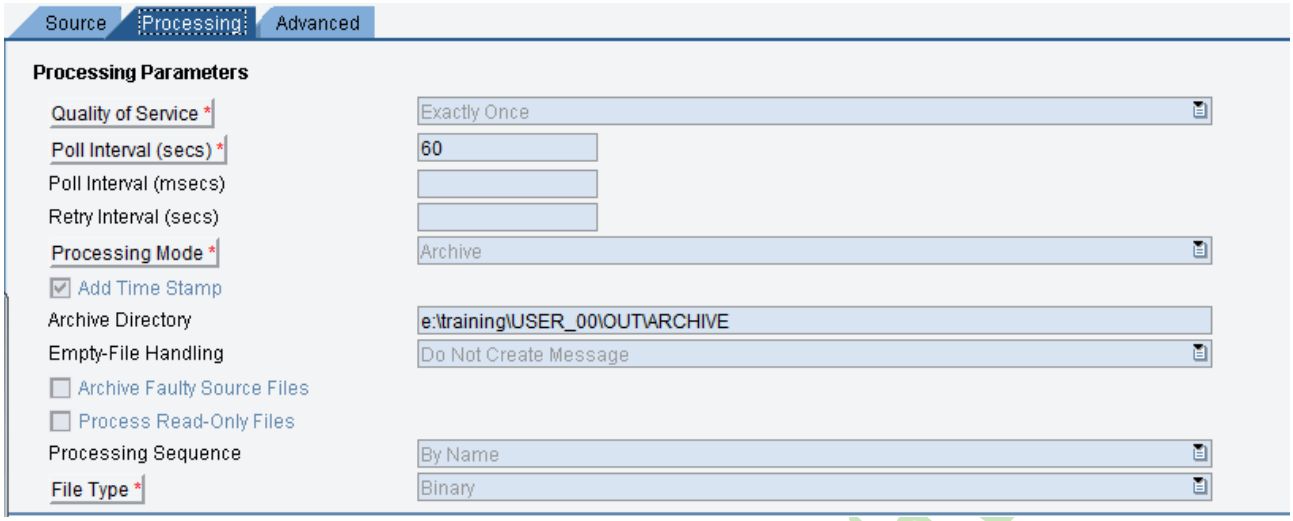
Configurazione lato Configuration



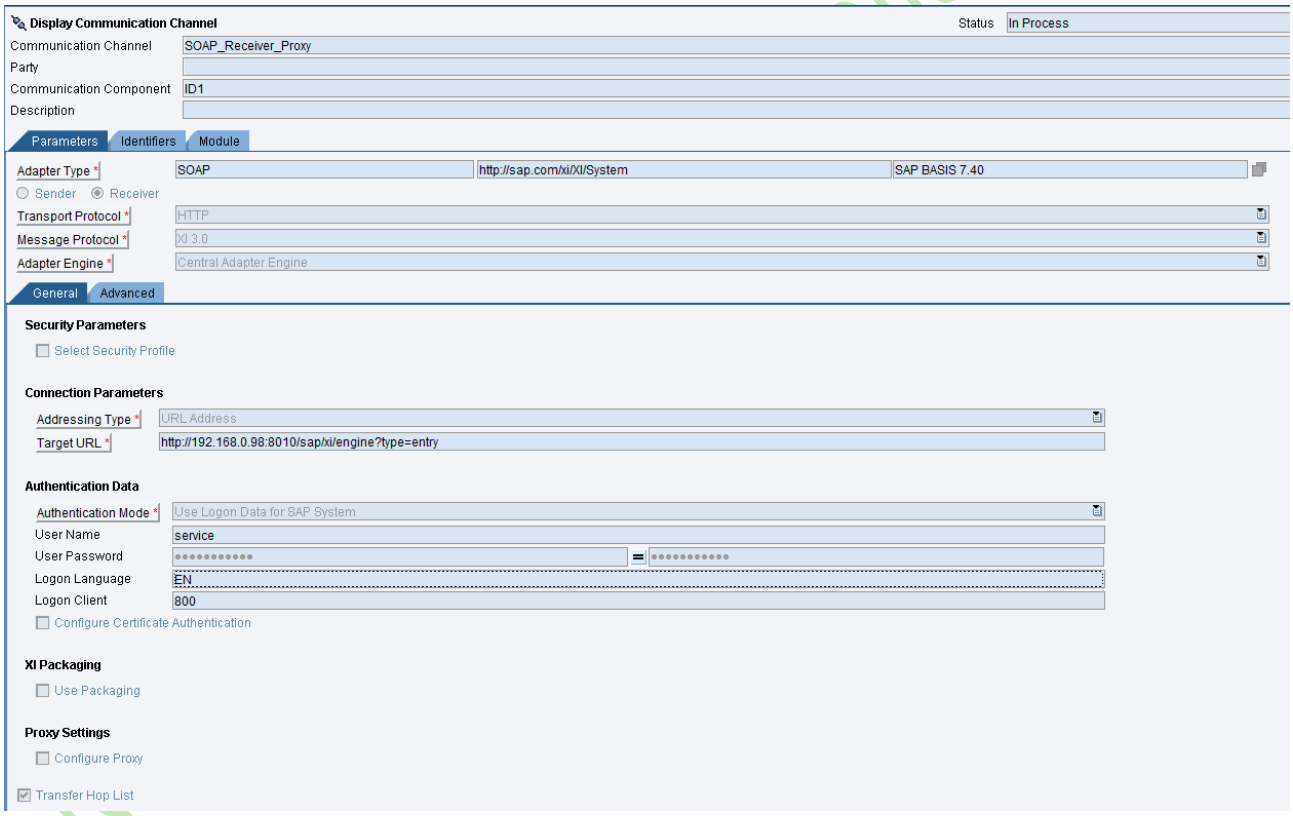
Channel file sender



Cc file sender	File_Sender_Proxy_00_A
Filename	FileProxy.xml

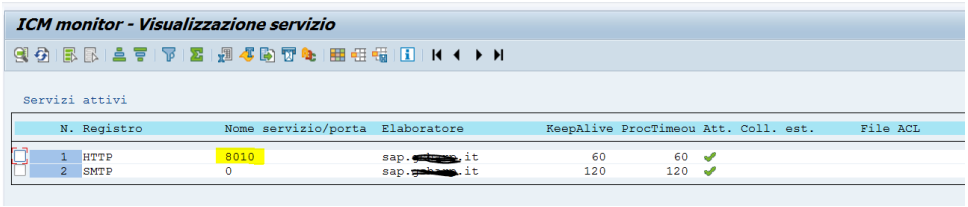


Channel proxy receiver

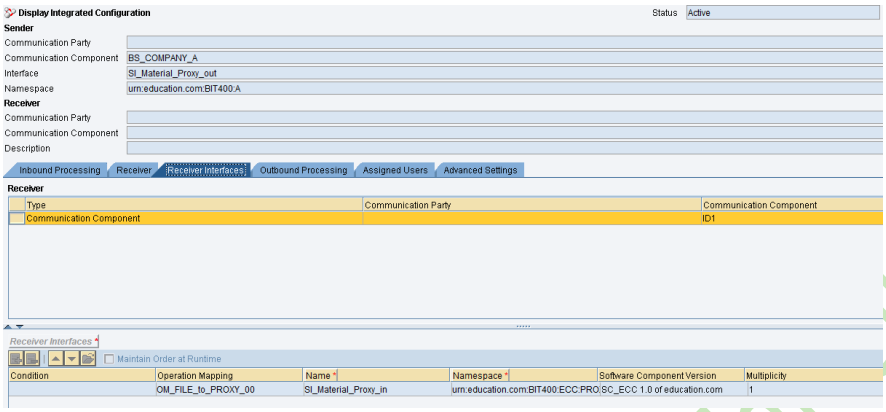


Cc Proxy Receiver	SOAP_Receiver_Proxy
Target URL	http://*<ecc_server>*:*<port>*/sap/xi/engine?type=entry
User Name	Definire utenza di servizio su ECC (transazione SU01)

<port> si determina su ECC tramite la transazione *SMICM > Servizi*



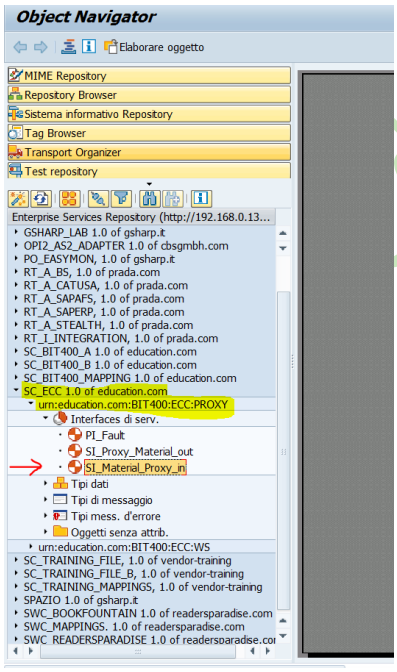
Interface determination



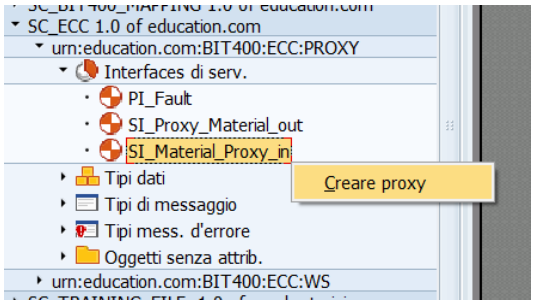
Lato ECC

[SPROXY] Sviluppo Proxy

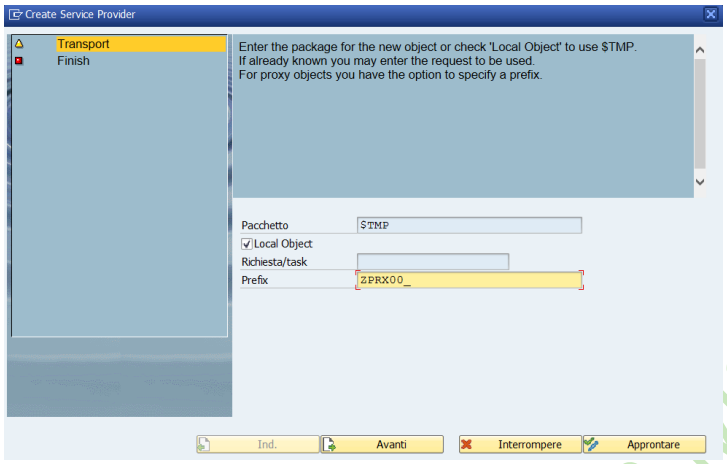
Generazione classe ABAP Proxy



Nick4Name di Nicola Martella & F. s.a.s

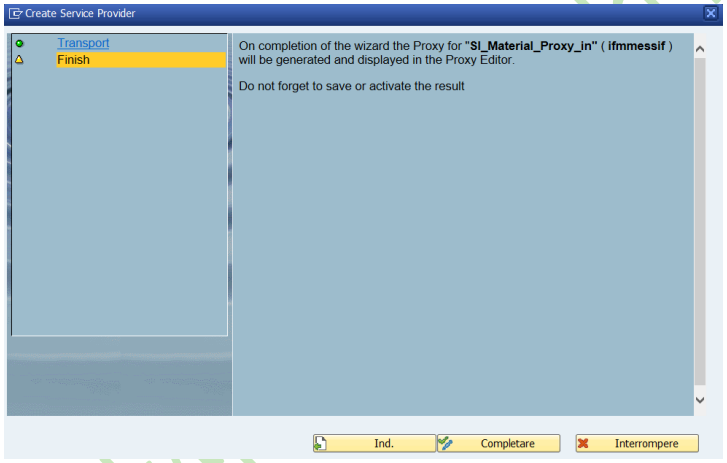


Lancio wizard



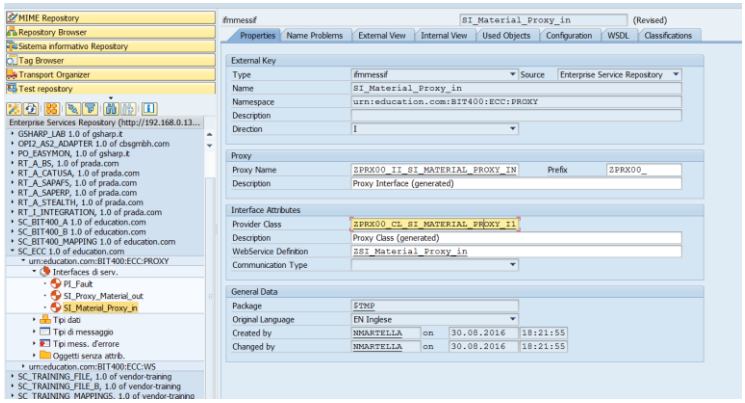
Step 1

Definizione prefisso oggetti



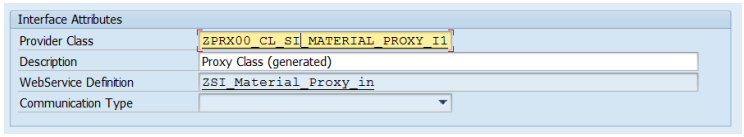
Completare

Nick4Name di Nicola Martella & F. s.a.s

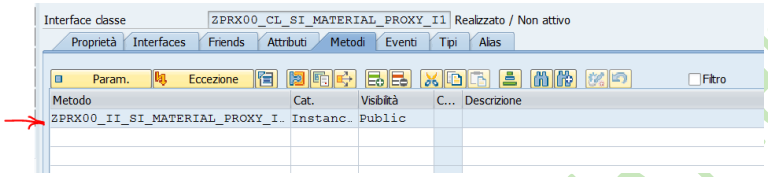


Classe proxy generata.

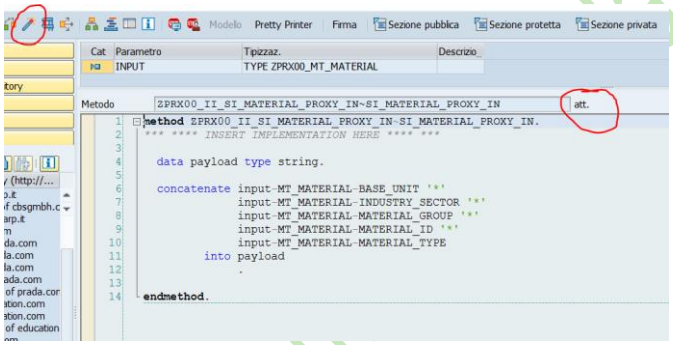
Premere per attivare.



Doppio click sulla provider class



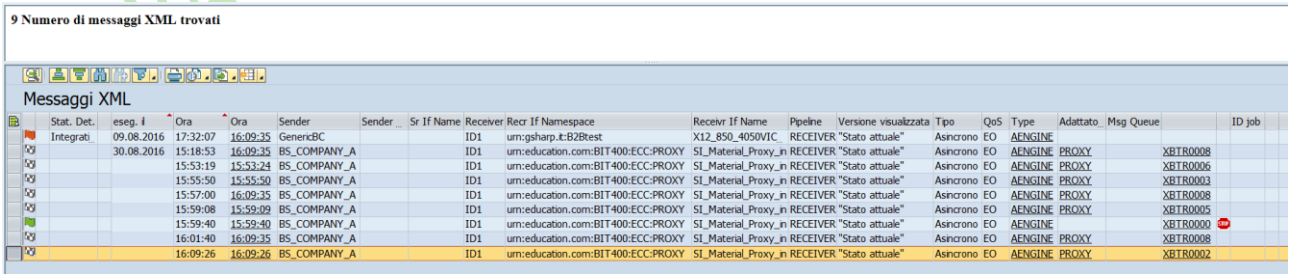
Doppio click sul nome del metodo

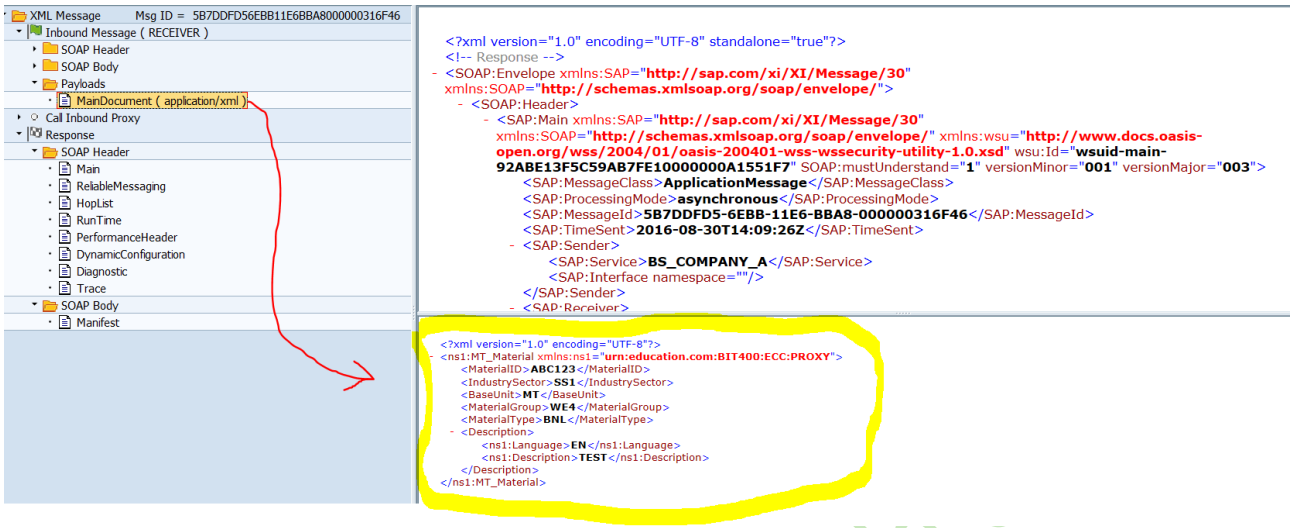


Scrivere il codice ed attivare

```
method ZPRX00_II_SI_MATERIAL_PROXY_IN~SI_MATERIAL_PROXY_IN.
*** **** INSERT IMPLEMENTATION HERE **** ***

  data payload type string.

  concatenate input-MT_MATERIAL-BASE_UNIT '*'
              input-MT_MATERIAL-INDUSTRY_SECTOR '*'
              input-MT_MATERIAL-MATERIAL_GROUP '*'
              input-MT_MATERIAL-MATERIAL_ID '*'
              input-MT_MATERIAL-MATERIAL_TYPE
         into payload
              .

endmethod.
```

[SXI_MONITOR] Monitor su ECC

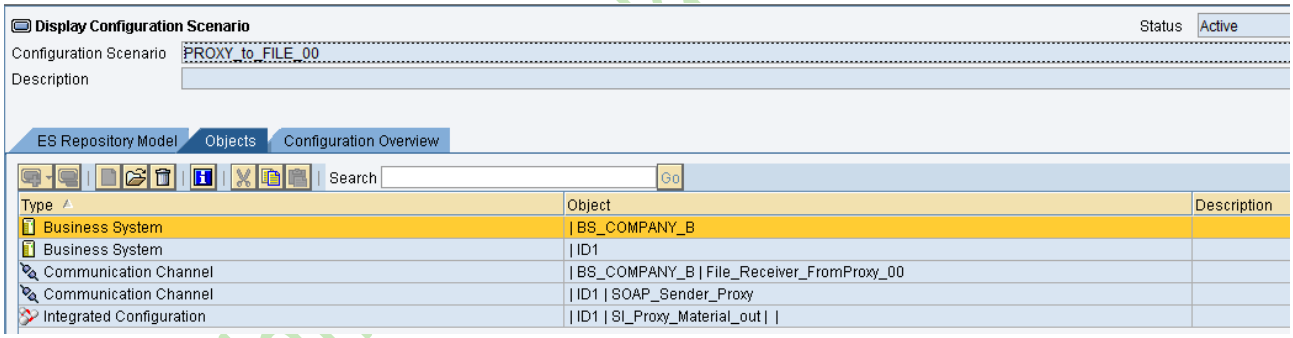




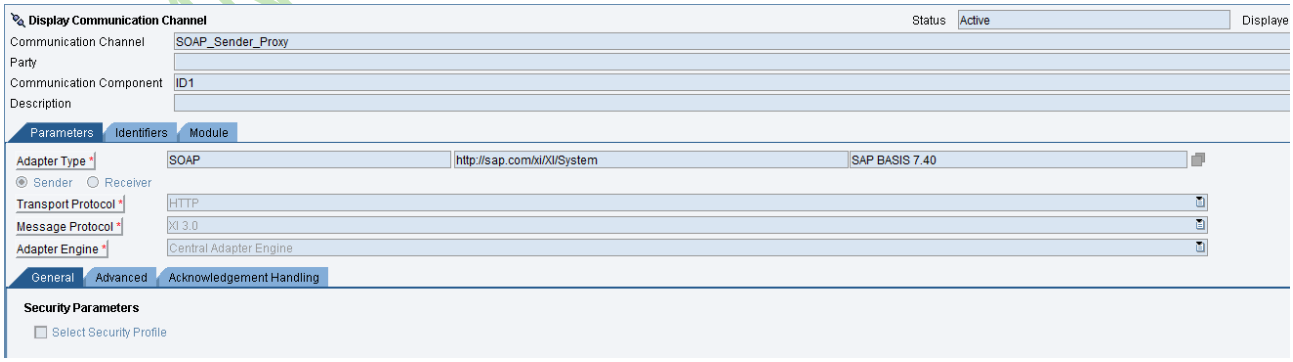
Scenario PROXY_to_FILE_00

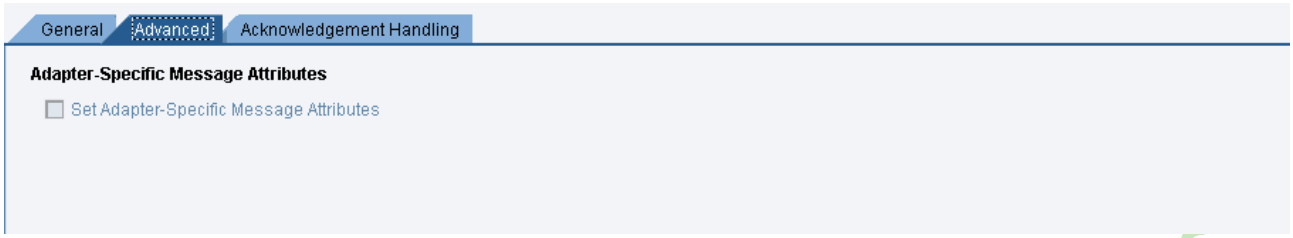
Scenario	PROXY --> FILE
Obiettivo	Scrittura di un file con i dati processati da ABAP proxy.

Configurazione lato Configuration

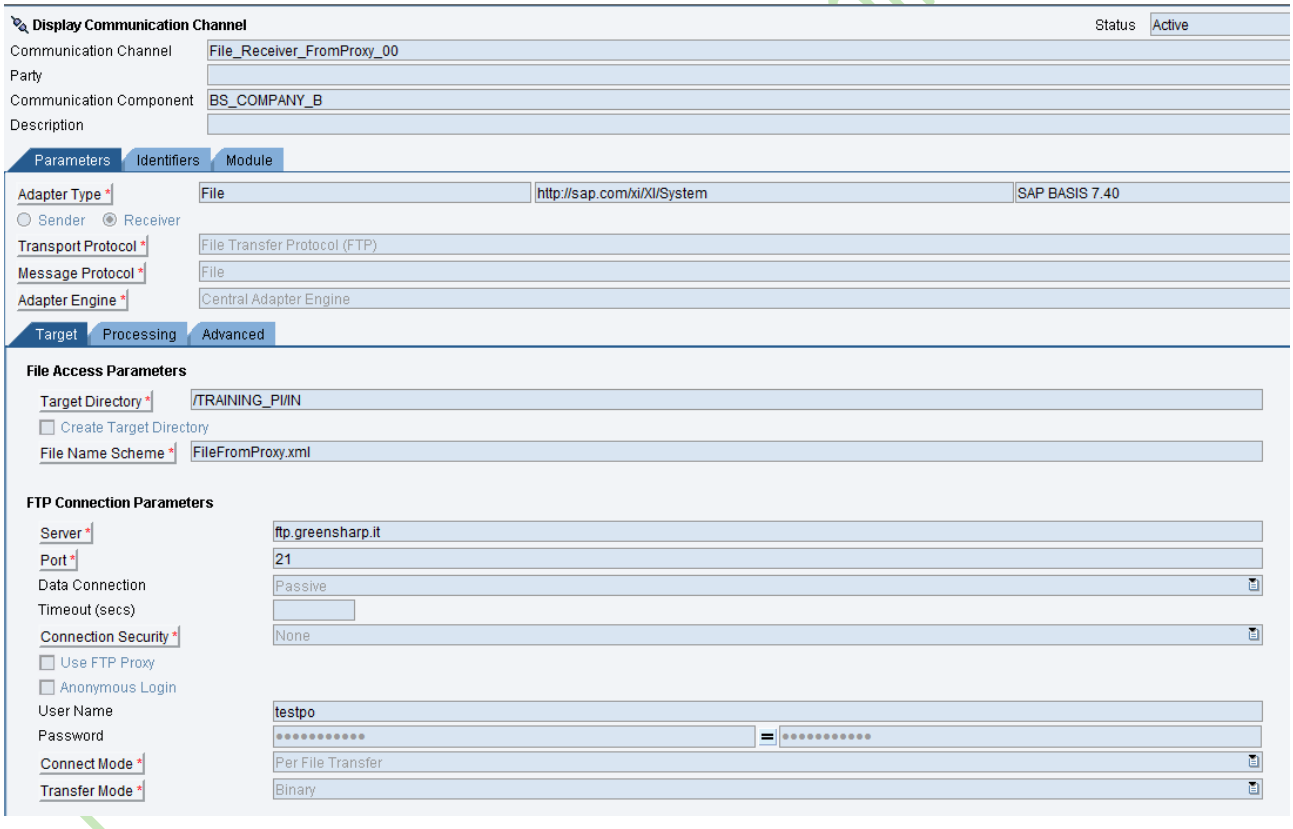


Channel proxy sender

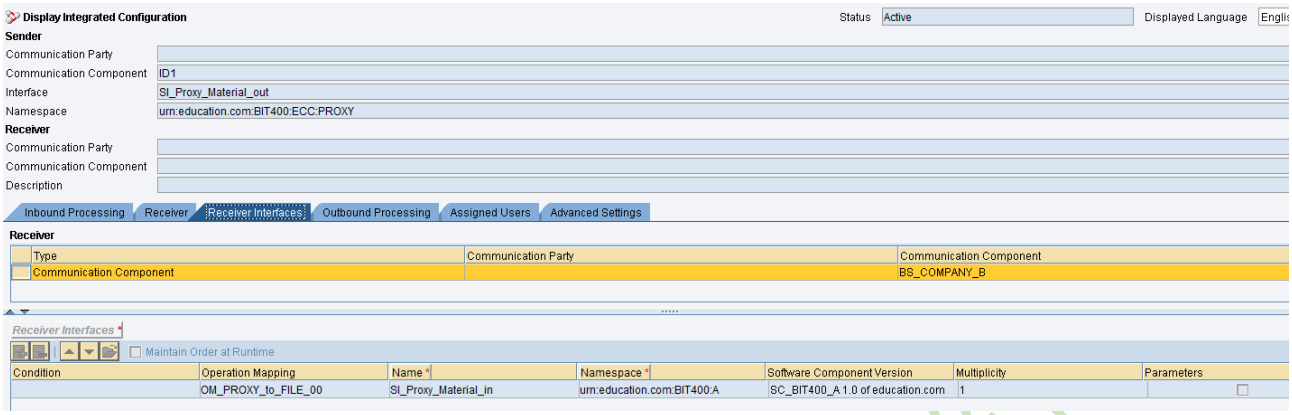




Channel file receiver

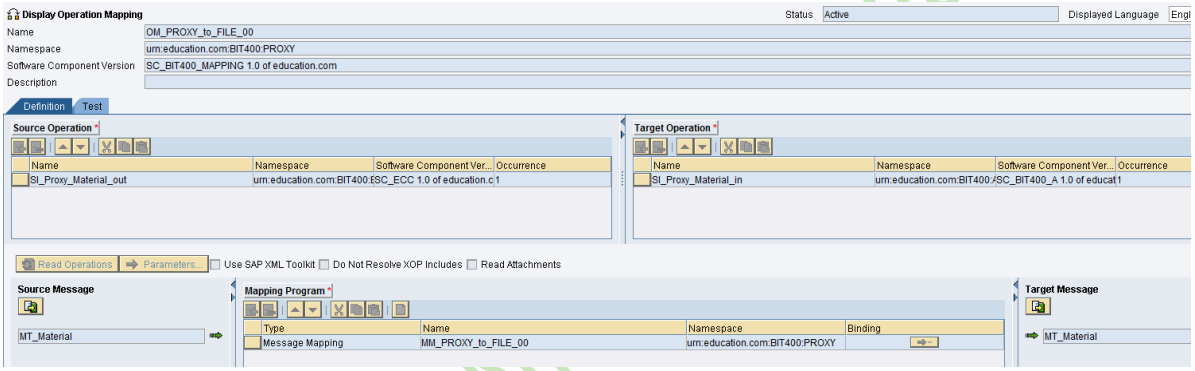


Interface determination

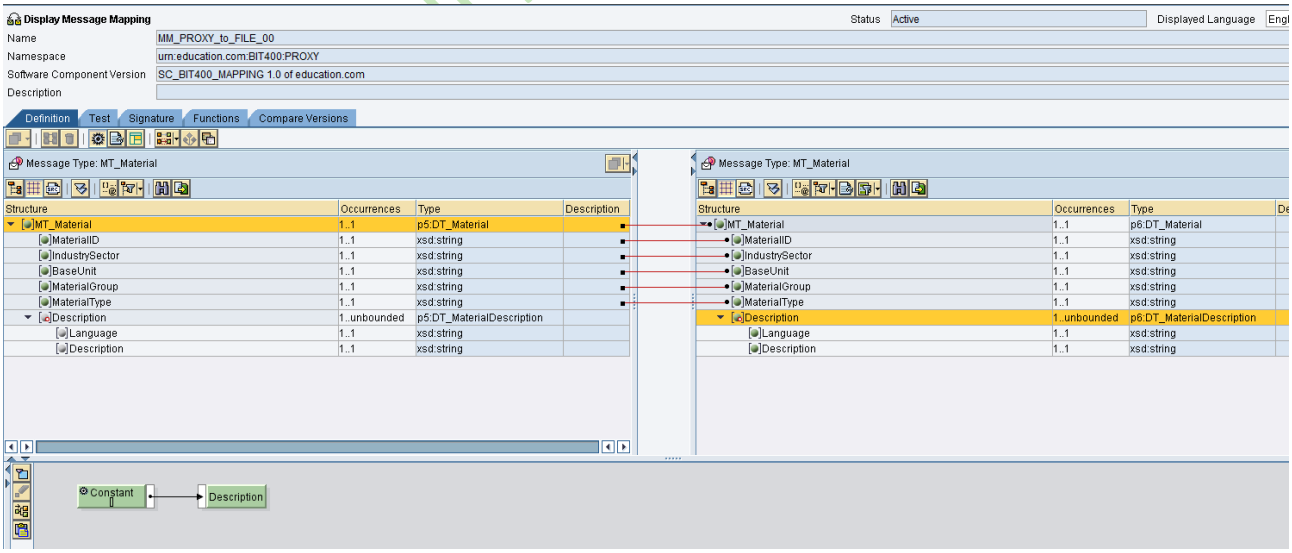


Configurazione lato Repository

Operation Mapping

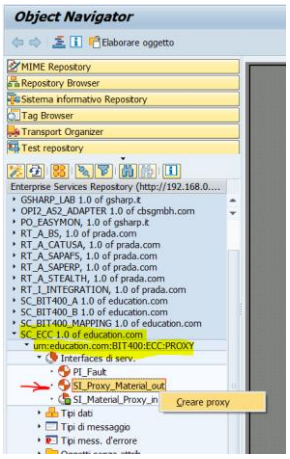


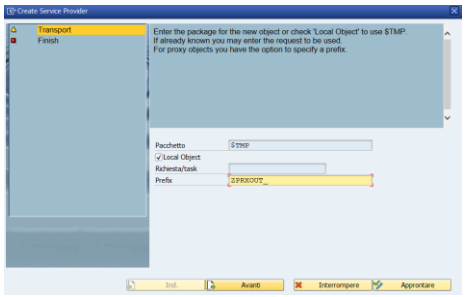
Message Mapping



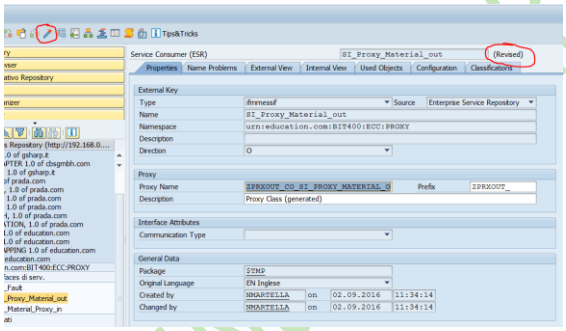
Configurazione lato ECC

[SPROXY] Creazione classe proxy ABAP



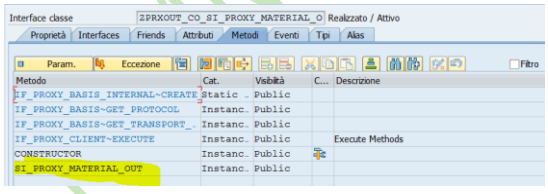


Indicare il prefisso per la denominazione degli oggetti e premere *Approntare*.



Salvare e attivare .

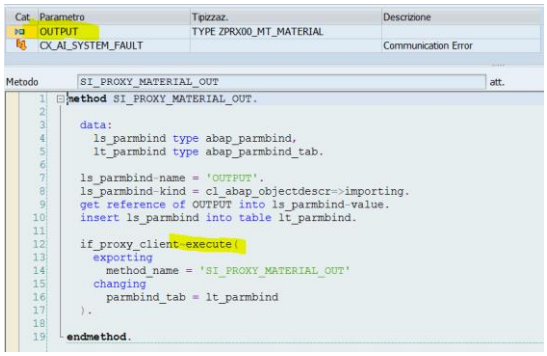
Doppio click su *Proxy Name*



Metodi della classe proxy.

Doppio click sul metodo/Service Interface

Nick4Name di Nicola Martella & F. s.a.s



Codice autogenerato dal wizard.

Notare parametro di uscita **OUTPUT** del tipo Message Type associato alla Service Interface e l'invocazione del metodo **execute** con cui il proxy passa il controllo all'Integration Engine PI.

[SE38] Report ABAP che utilizza l'ABAP proxy

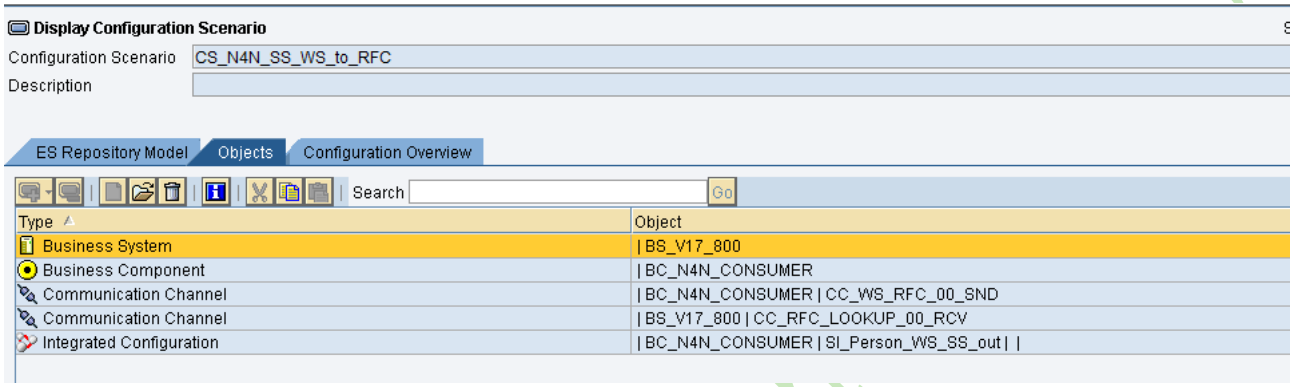
```
*&---------------------------------------------------------------------*
*& Report  Z_LAUNCHER_PROXY_OUT
*&
*&---------------------------------------------------------------------*
*&
*&
*&---------------------------------------------------------------------*

REPORT Z_LAUNCHER_PROXY_OUT.

data proxy_pi type REF TO ZPRXOUT_CO_SI_PROXY_MATERIAL_O.
data parmout  type        ZPRX00_MT_MATERIAL.
data descr    type        ZPRX00_DT_MATERIAL_DESCRIPTION.

parmout-MT_MATERIAL-MATERIAL_TYPE = 'MT'.
parmout-MT_MATERIAL-MATERIAL_ID = 'ABCD1234'.
parmout-MT_MATERIAL-MATERIAL_GROUP = 'GR'.
parmout-MT_MATERIAL-INDUSTRY_SECTOR = 'IS'.

*descr-LANGUAGE = 'EN'.
*descr-DESCRIPTION = 'Material description'.
*parmout-MT_MATERIAL-DESCRIPTION = descr.

create object PROXY_PI.
*TRY.
CALL METHOD PROXY_PI->SI_PROXY_MATERIAL_OUT
  EXPORTING
    OUTPUT = parmout
    .
* CATCH CX_AI_SYSTEM_FAULT .
*ENDTRY.
 COMMIT WORK.

 MESSAGE i088(ms) WITH 'Information sent!'.
```

Nick4Name di Nicola Martella & F. s.a.s

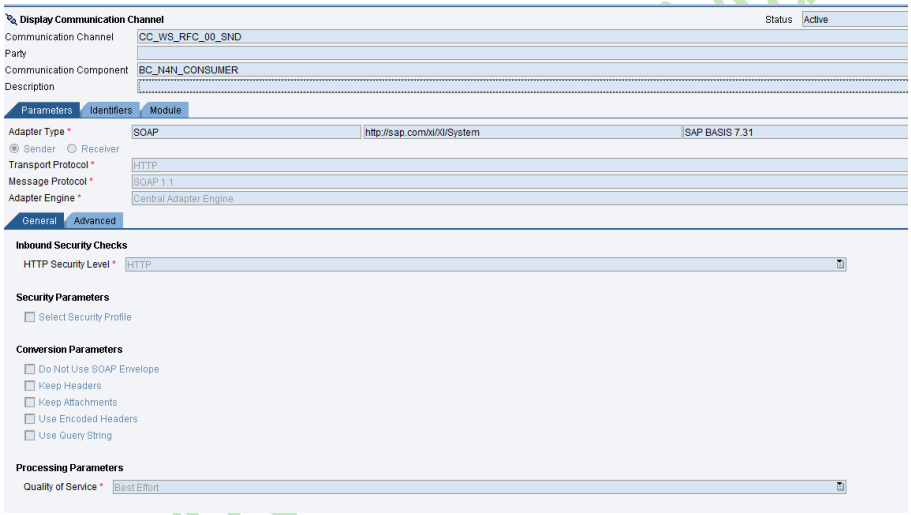
Scenario CS_N4N_SS_WS_to_RFC

Scenario	SOAP <--> RFC
Obiettivo	Elaborazione tramite RFC dei dati ricevuti tramite webservice.

Configurazione lato Configuration

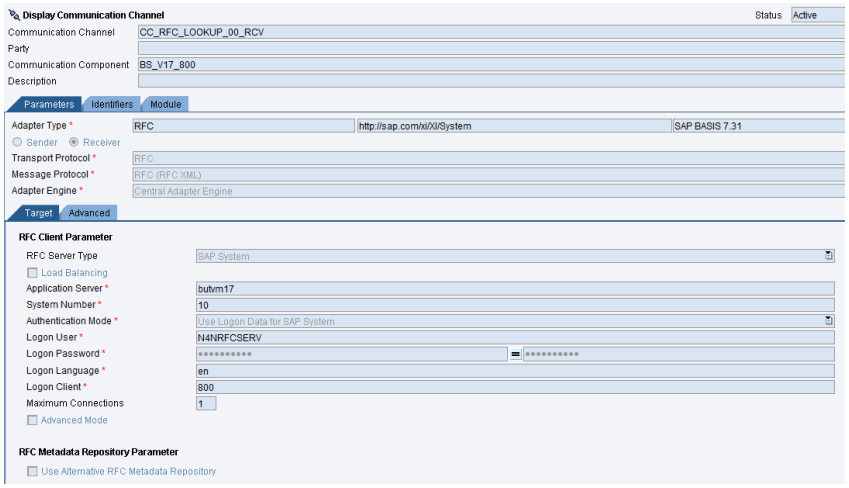


Channel sender WS



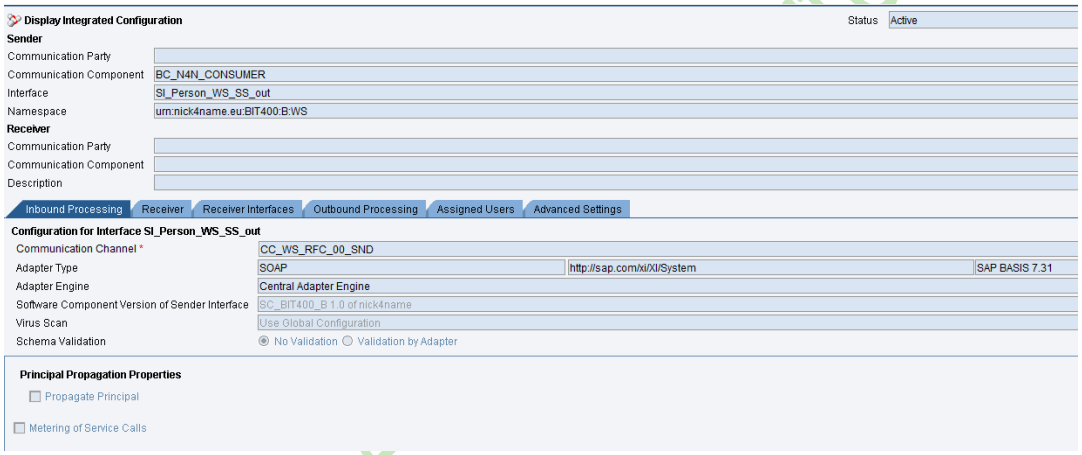
CC Sender	CC_WS_RFC_00_SND

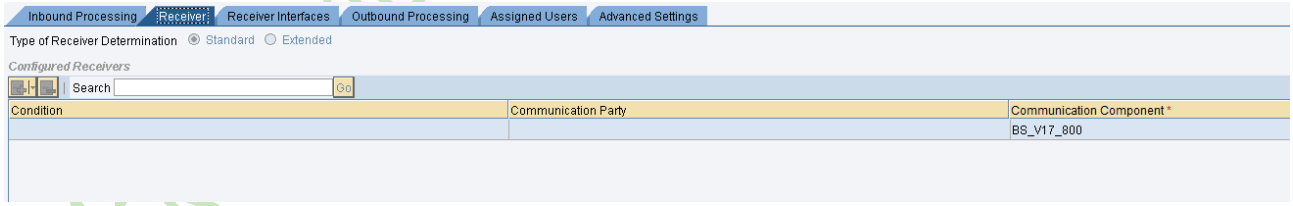
Channel RFC receiver

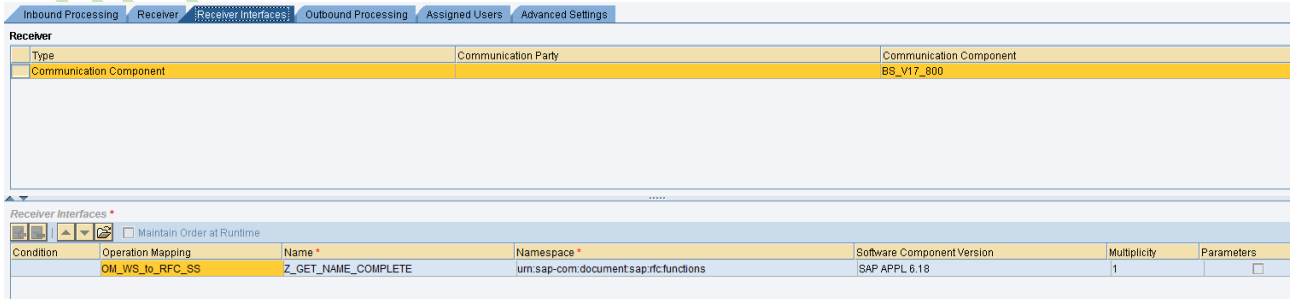


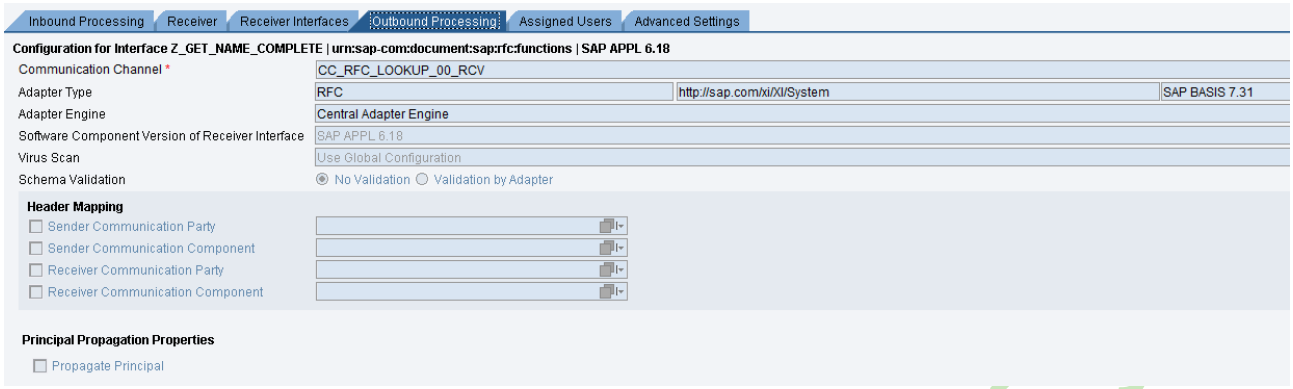
CC Receiver CC_RFC_LOOKUP_00_RCV

Integrated Configuration

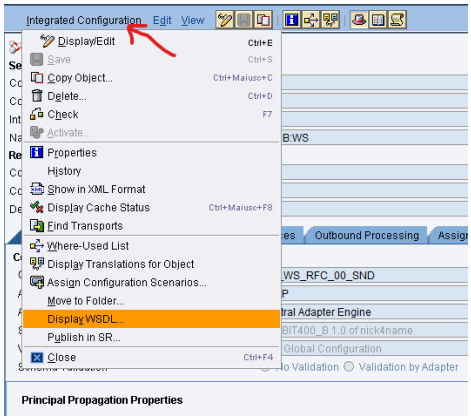


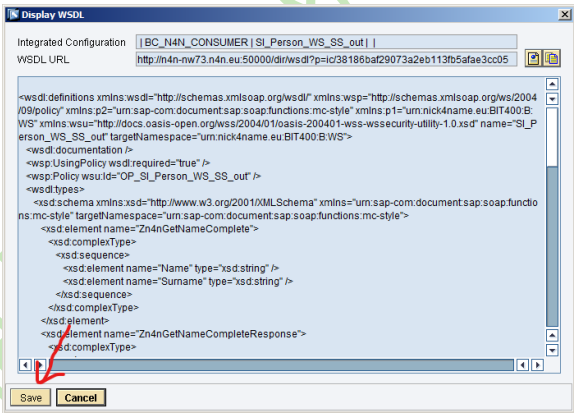






Per ottenere il WSDL dello scenario

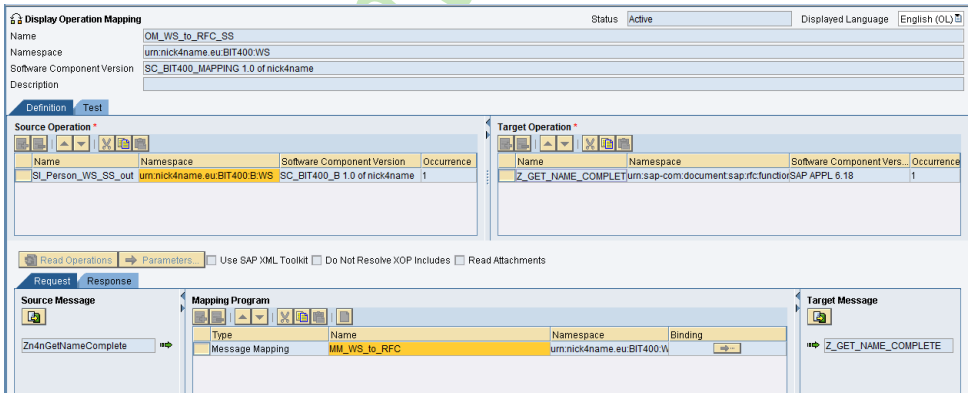




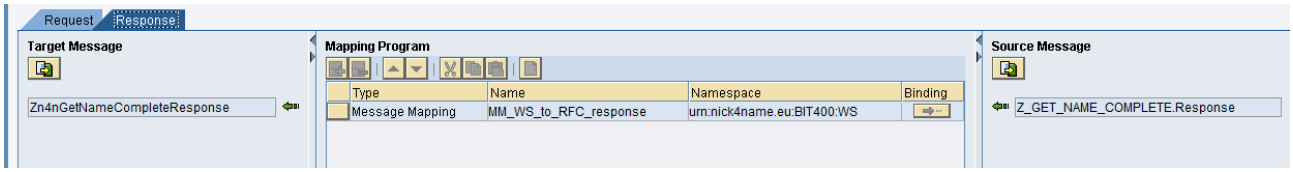
Configurazione lato Enterprise Service Builder

Operation Mapping

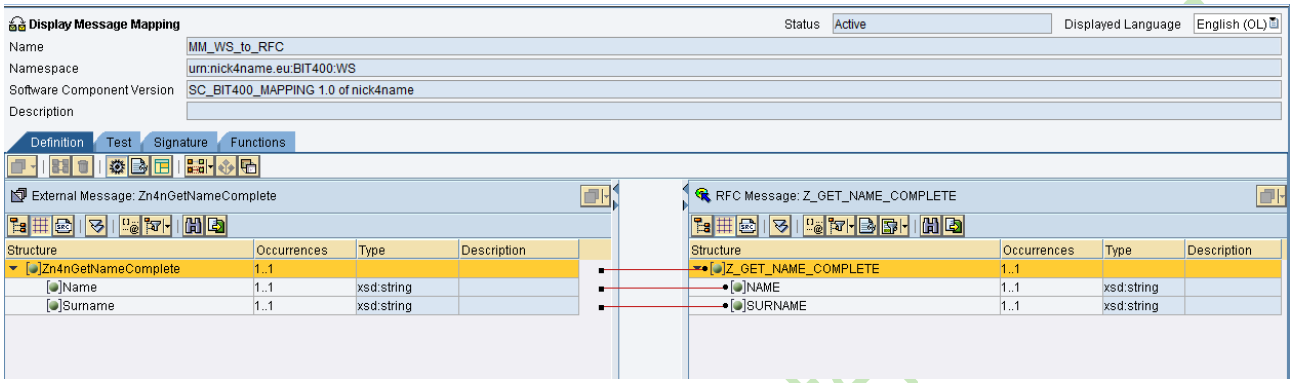
Request



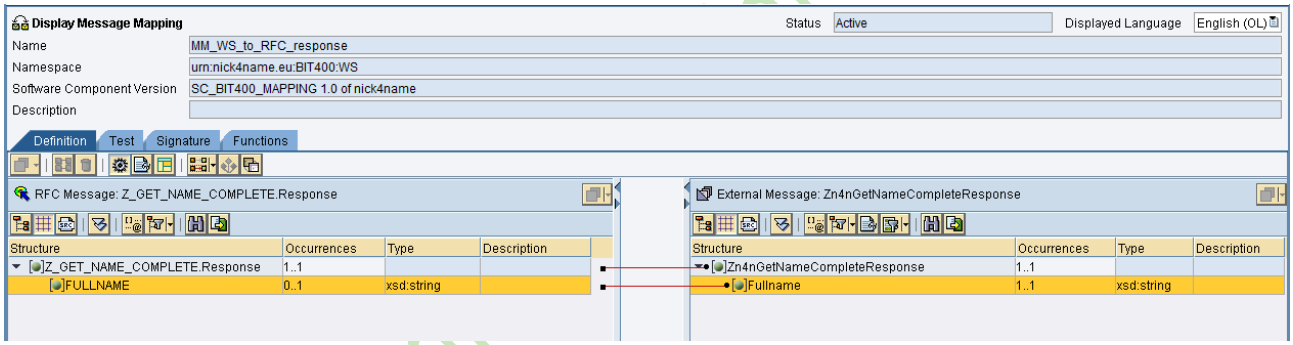
Response



Message Mapping request



Message Mapping response

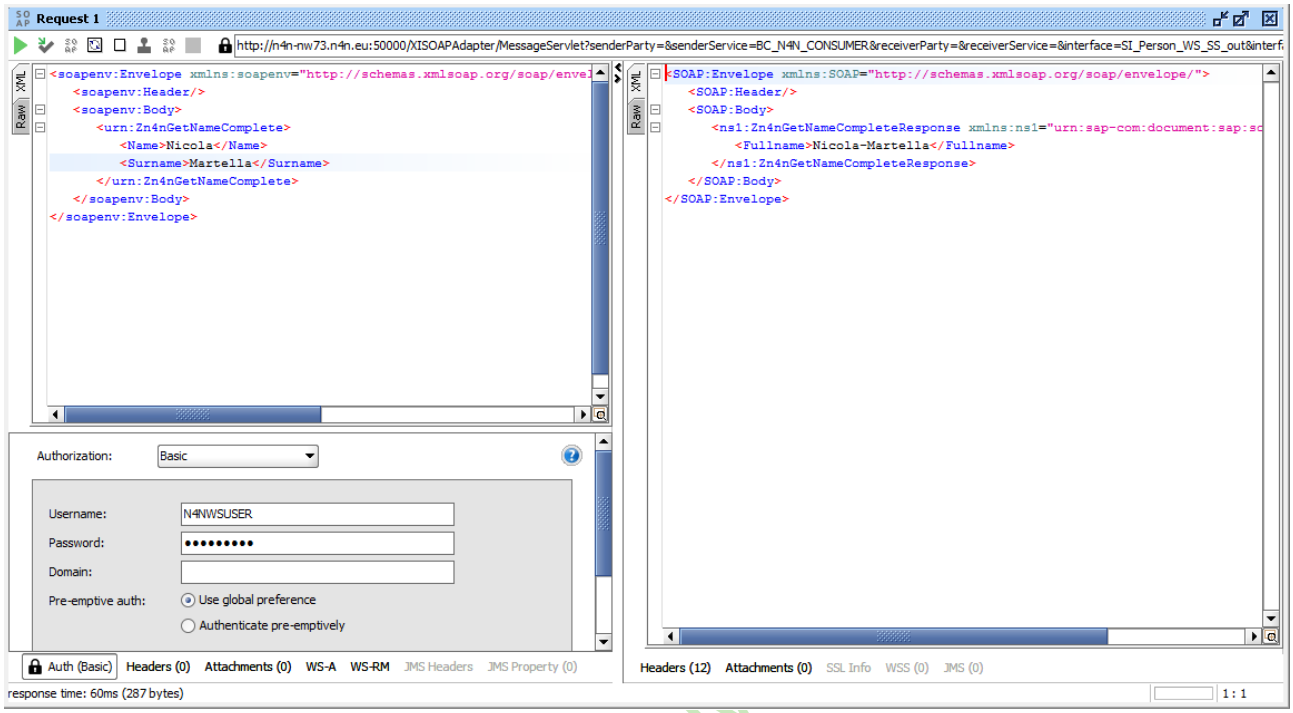


RFC ABAP

Tcode [SE37]

```
FUNCTION Z_GET_NAME_COMPLETE.
*"----------------------------------------------------------------------
*"*"Interfaccia locale:
*"  IMPORTING
*"     VALUE(NAME) TYPE  STRING
*"     VALUE(SURNAME) TYPE  STRING
*"  EXPORTING
*"     VALUE(FULLNAME) TYPE  STRING
*"----------------------------------------------------------------------

CONCATENATE NAME '-' SURNAME INTO FULLNAME.

ENDFUNCTION.
```

Test con SoapUI



Username	N4NWSUSER (utenza SAP PO)
Password	training0 (minuscolo)
URL	http://*<pi_server>*:*<port>*/XISOAPAdapter/MessageServlet?senderParty=&senderService=BC_N4N_CONSUMER&receiverParty=&receiverService=&interface=SI_Person_WS_SS_out&interfaceNamespace=urn:nick4name.eu:BIT400:B:WS

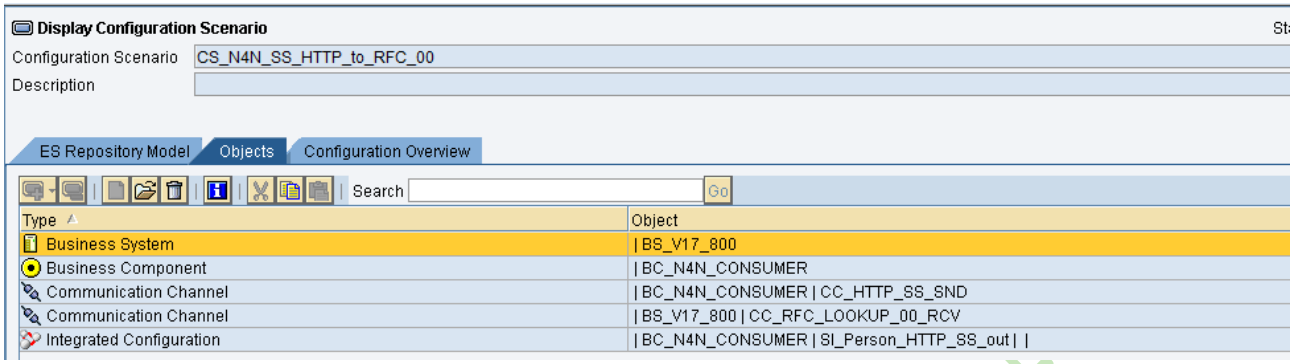
dove

Indirizzo	http://	Protocollo
	<pi_server>:*<port>*/	Indirizzo del server SAP PI e relativa porta
Path	XISOAPAdapter/MessageServlet	Servizio relativo all'adapter SOAP
Parametri	senderParty	Sender Party se usato altrimenti vuoto
	senderService	Business component sender
	receiverParty	Receiver Party se usato altrimenti vuoto
	receiverService	Business component receiver
	interface	Service Interface sender
	interfaceNamespace	Namespace sender

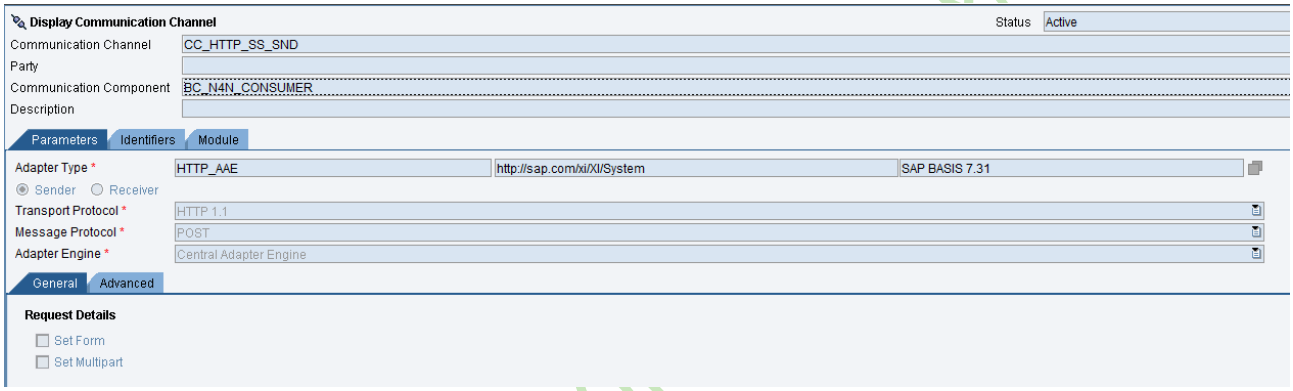
Scenario CS_N4N_SS_HTTP_to_RFC_00

Scenario	HTTP <--> RFC
Obiettivo	Elaborazione da parte di RFC del payload ricevuto tramite http POST (REST).

Configurazione lato Configuration

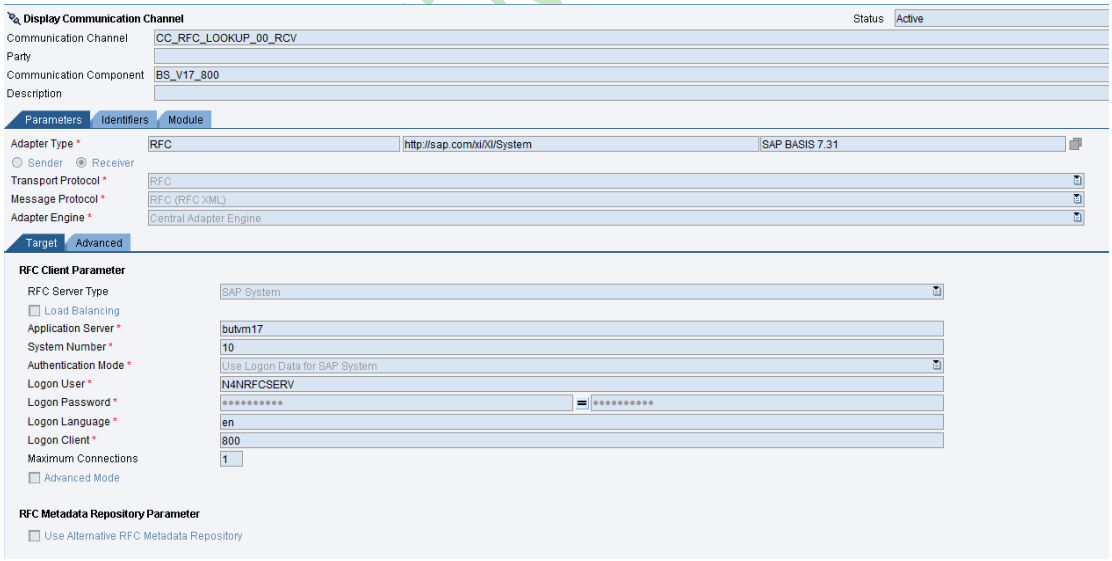


Channel sender HTTP



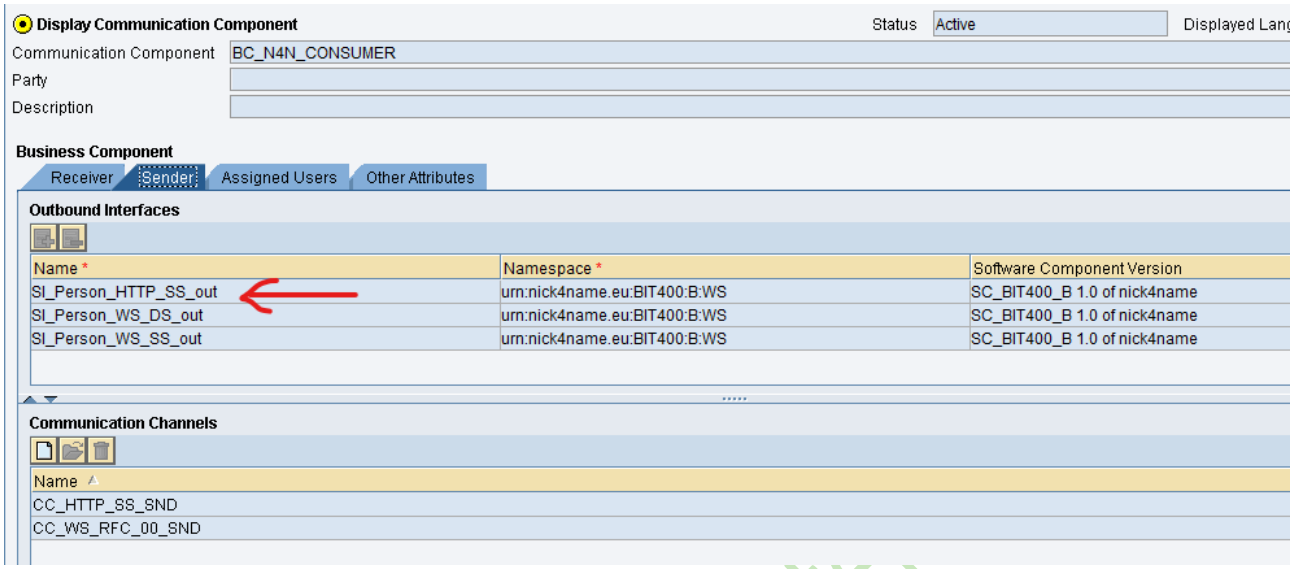
Cc sender	CC_HTTP_SS_SND

Channel receiver RFC

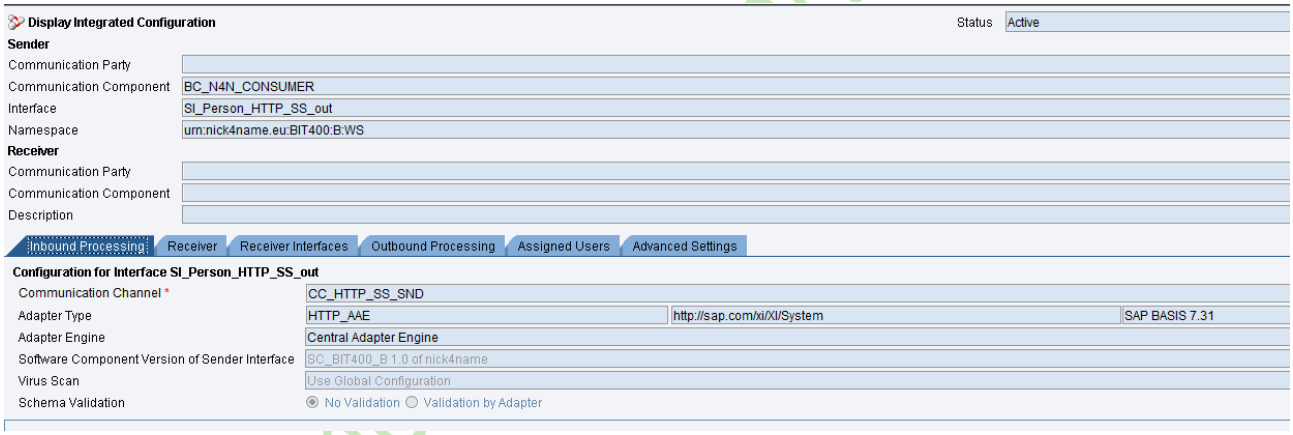


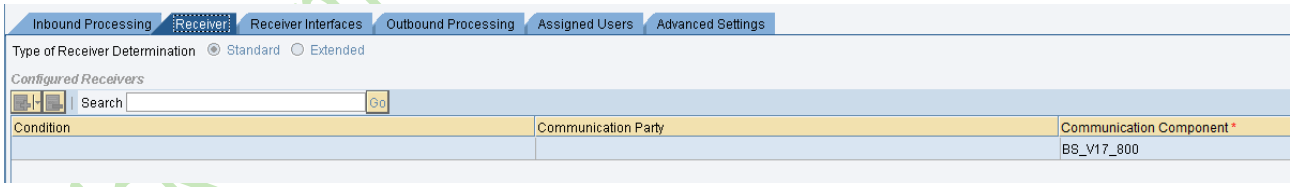
Cc receiver	CC_RFC_LOOKUP_00_RCV

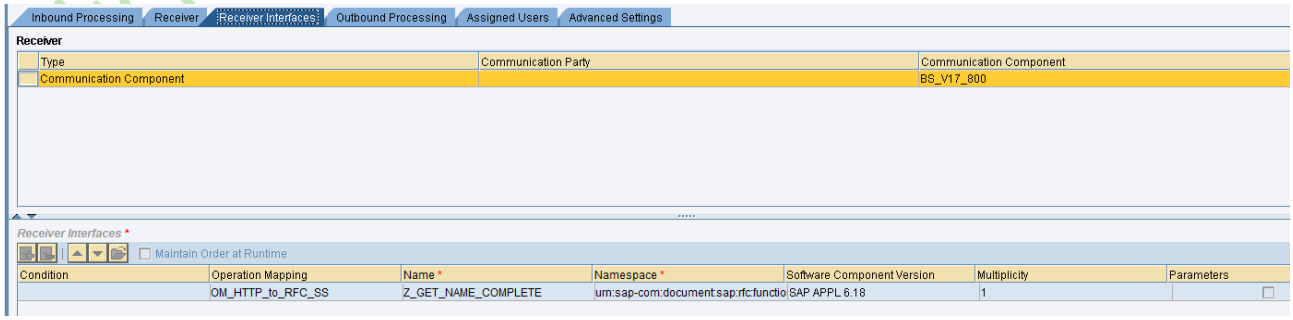
Communication Component

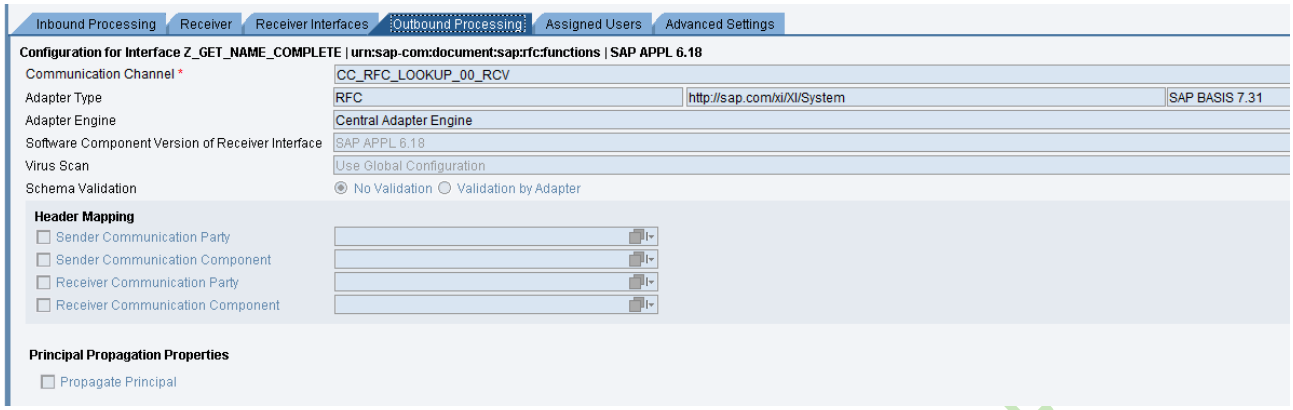


Integrated Configuration

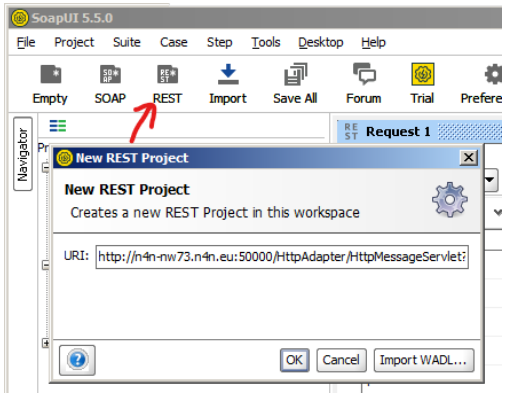








Test con SoapUI

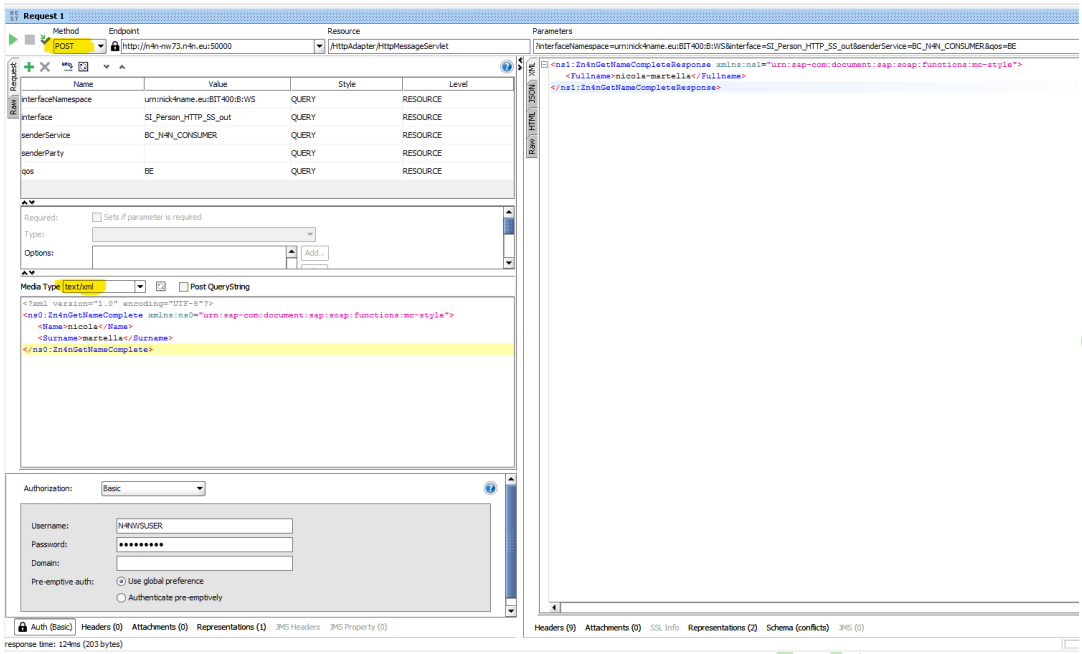


URI	http://<pi_server>:<port>/HttpAdapter/HttpMessageServlet?interfaceNamespace=**urn%3Anick4name.eu%3ABIT400%3AB%3AWS**&interface=**SI_Person_HTTP_SS_out**&senderService=**BC_N4N_CONSUMER**&senderParty=&qos=**BE**

dove

Indirizzo	http://	Protocollo
	<pi_server>:<port>/	Indirizzo del server SAP PI e relativa porta n4n-nw73.n4n.eu:50000
Path	HttpAdapter/HttpMessageServlet	Servizio relativo all'adapter HTTP
Parametri	interfaceNamespace	Namespace sender. I caratteri speciali come :/$% ed altri vanno convertiti in *ESCAPE Characters*
	interface	Service Interface sender
	senderService	Business component sender
	senderParty	Sender Party se usato altrimenti vuoto
	qos	Quality of Service solitamente BE

Nick4Name di Nicola Martella & F.



Modificare in soapUI

Method	In	POST
Media Type	In	text/xml
Payload	Dal file SI_Person_HTTP.xml	<?xml version="1.0" encoding="UTF-8"?> <ns0:Zn4nGetNameComplete xmlns:ns0="urn:sap-com:document:sap:soap:functions:mc-style"> <Name>nicola</Name> <Surname>martella</Surname> </ns0:Zn4nGetNameComplete>
Authorization	Utenza di PI	N4NWSUSER password: training0 (minuscolo)

Nick4Name di Nicola Martella & F. s.a.s

Scenario CS_N4N_SS_WEBSERVICE_EXT_00

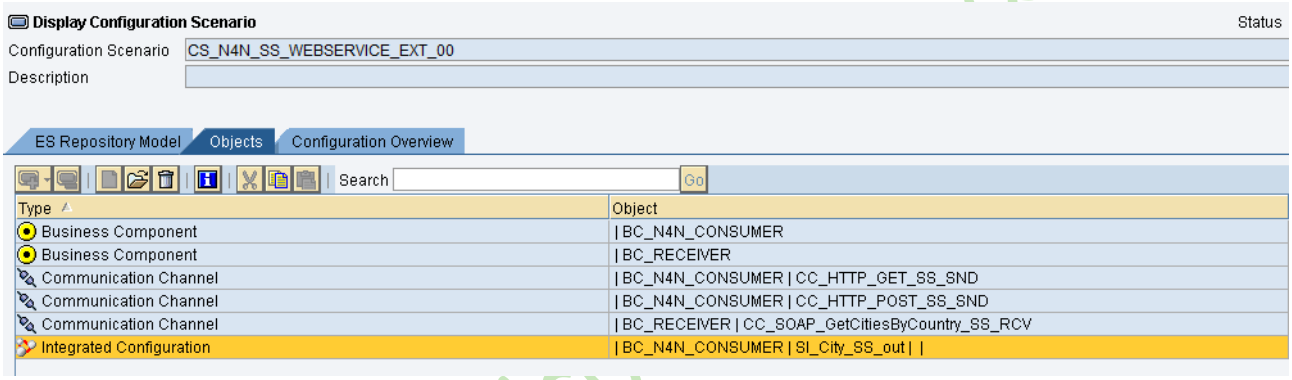
Scenario	HTTP <--> SOAP
Obiettivo	Doppio scenario per dimostrazione chiamata http (REST) sia tramite GET che tramite POST per passare il payload a webservice esterno a PI.

Tramite chiamata HTTP esposta da PI viene consumato il web service terze parti ***GetCitiesByCountry*** pubblicato all'indirizzo *http://N4N-WINSRV16/ServiceDemoForPITraining/GetCitiesByCountry.asmx?wsdl*

Copiare in un file con estensione wsdl il WSDL visualizzato nel browser.

Utilizzeremo lo scenario invocandolo con una chiamata http sia in modalità GET che in modalità POST.

Configurazione lato Configuration

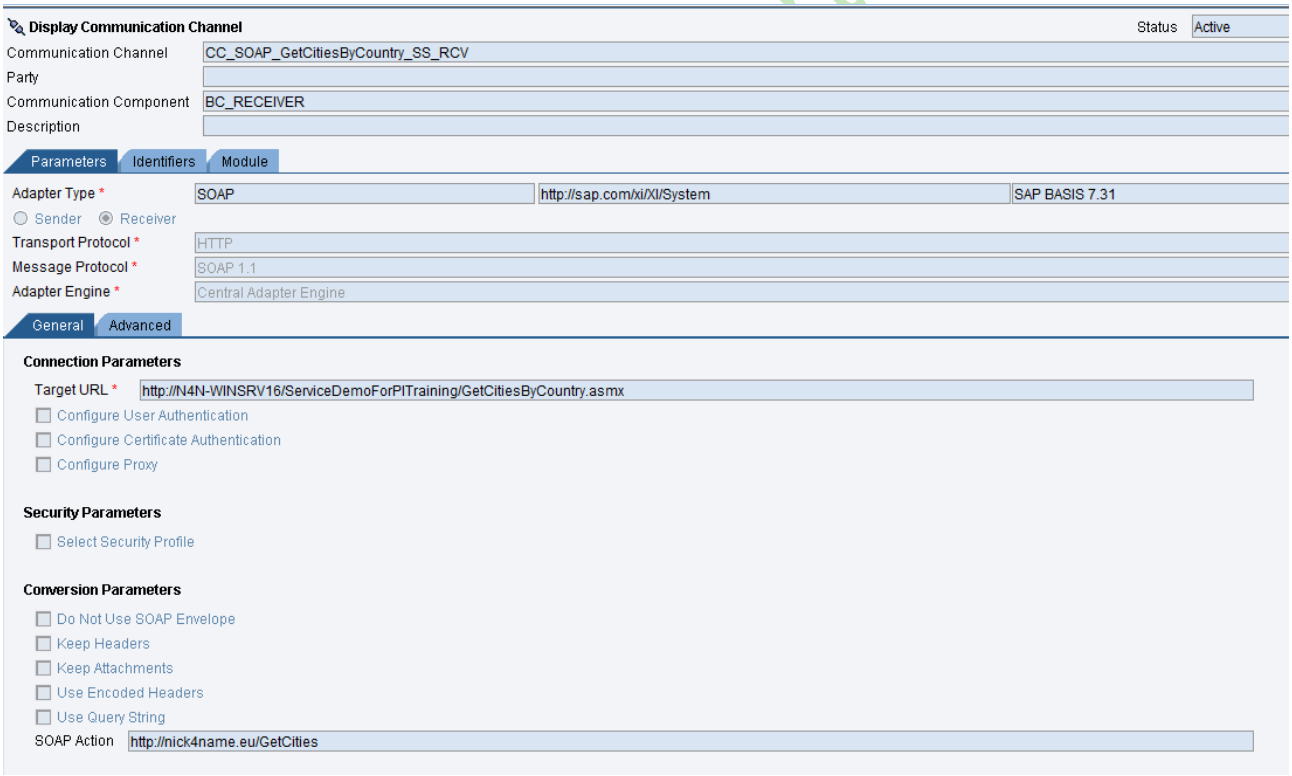


Modalità HTTP GET

Channel HTTP sender

URL Parameters dice all'adapter di cercare sull'URL di request il placeholder **NAME** il cui valore rappresenta il payload di request.

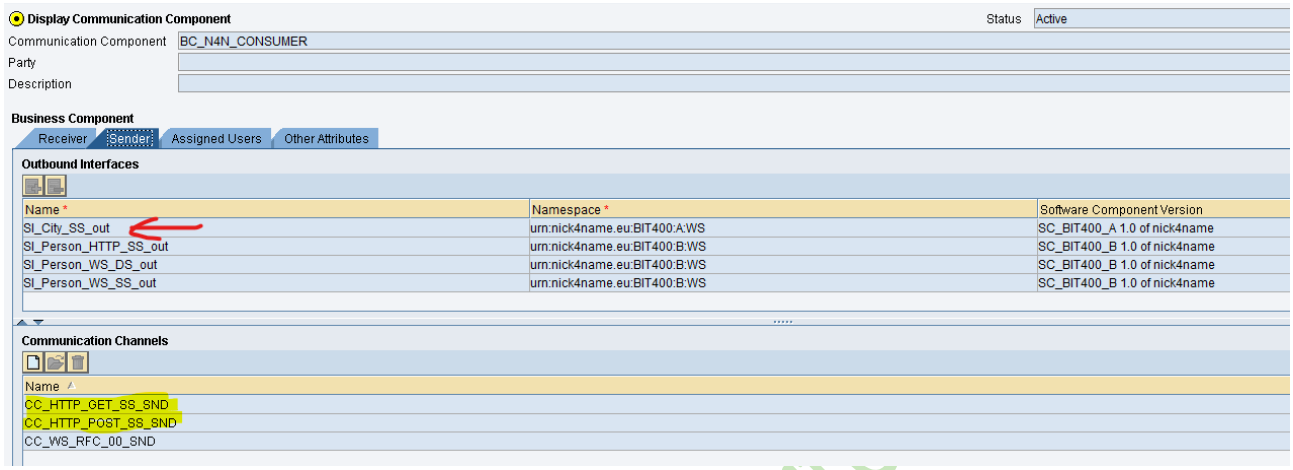
Channel SOAP receiver



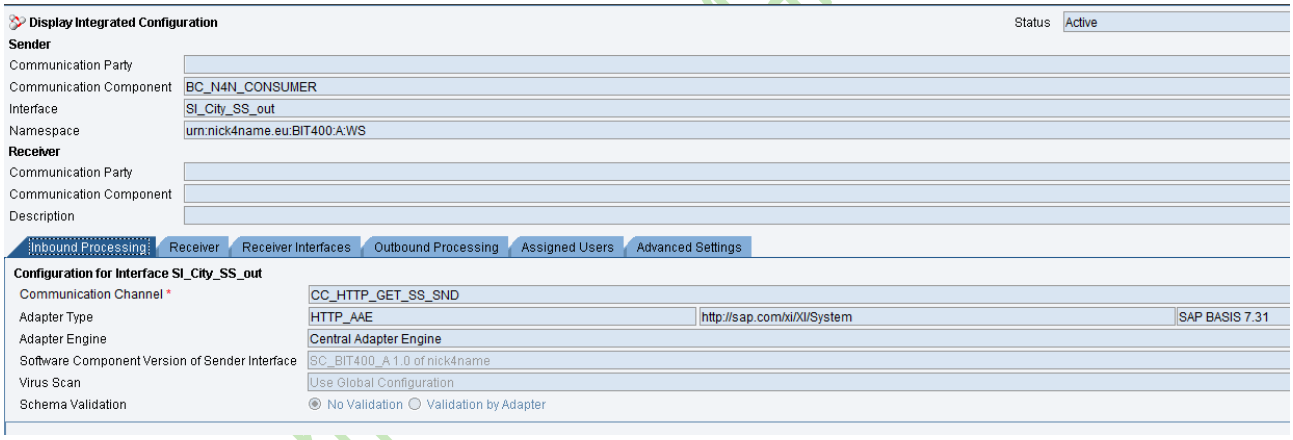
Cc name	CC_SOAP_GetCitiesByCountry_SS_RCV
Target URL	http://N4N-WINSRV16/ServiceDemoForPITraining/GetCitiesByCountry.asmx
SOAP Action	http://nick4name.eu/GetCities

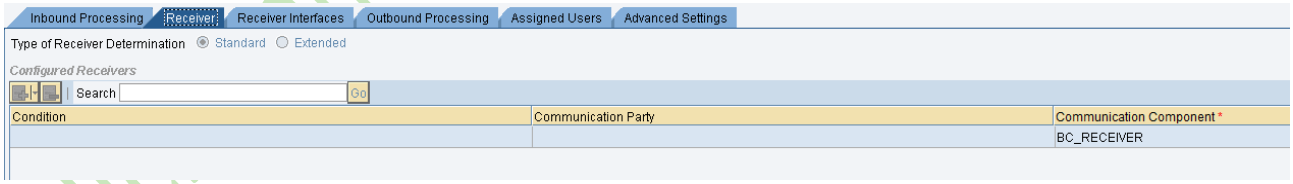
Communication Component

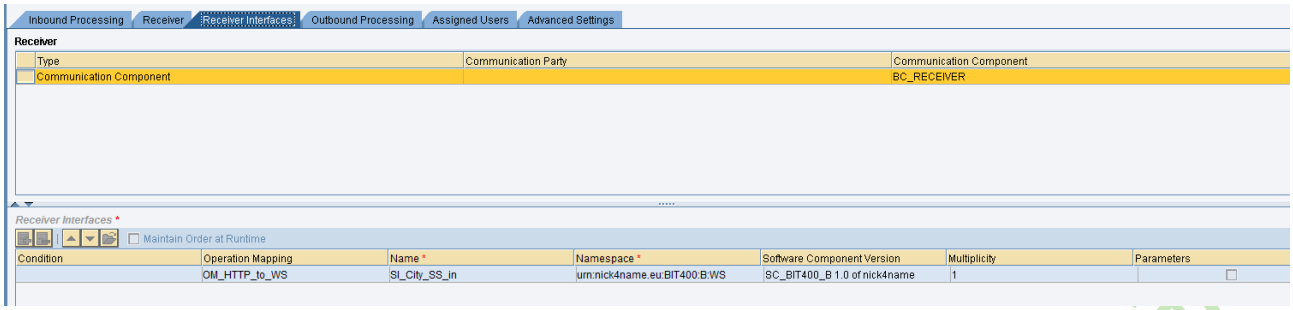
Aggiungere Service Interface sender

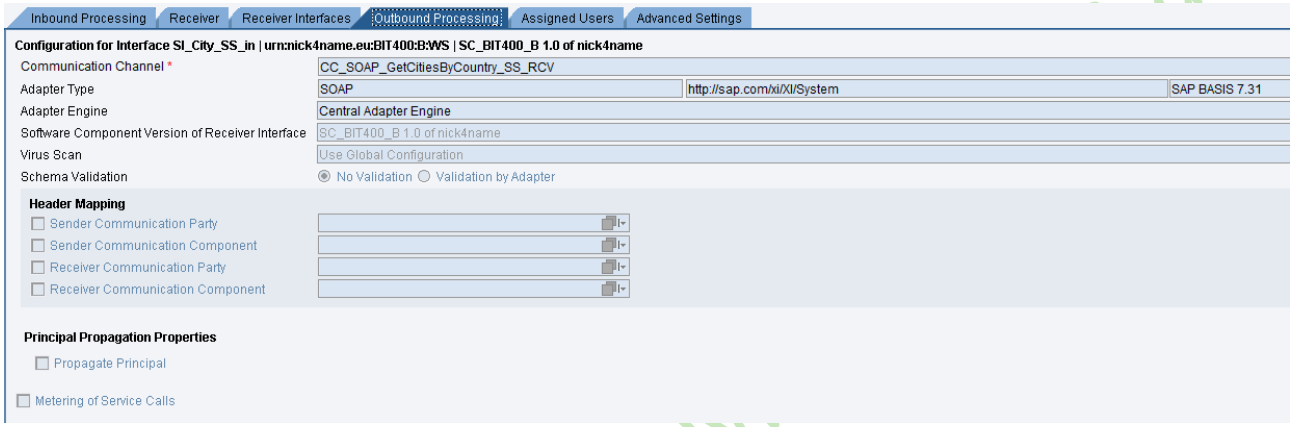


Integrated Configuration









Test da soapUI

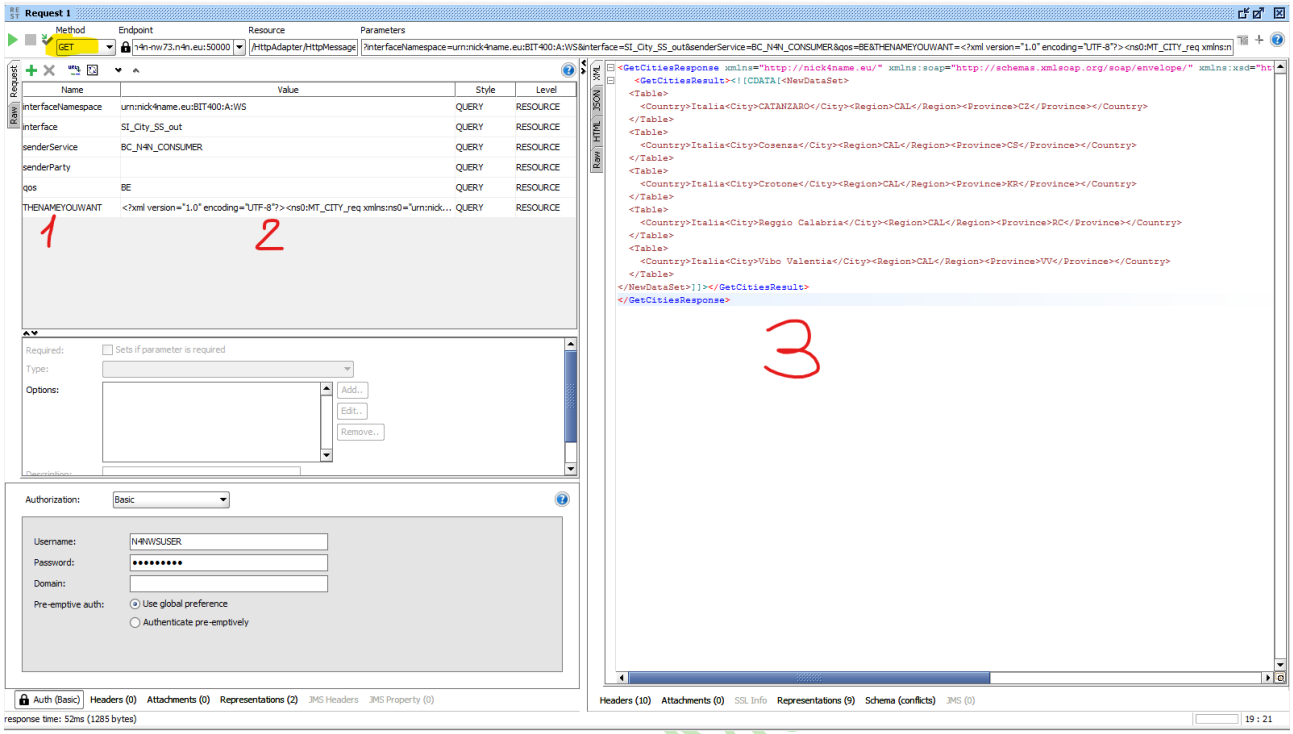
Creare un progetto di tipo REST ed indicare il seguente URL

http://n4n-nw73.n4n.eu:50000/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:nick4name.eu:BIT400:A:WS&interface=SI_City_SS_out&senderService=BC_N4N_CONSUMER&senderParty=&qos=BE&THENAMEYOUWANT=<?xml version="1.0" encoding="UTF-8"?><ns0:MT_CITY_req xmlns:ns0="urn:nick4name.eu:BIT400:A:WS"><NAME>LOM</NAME></ns0:MT_CITY_req>

dove

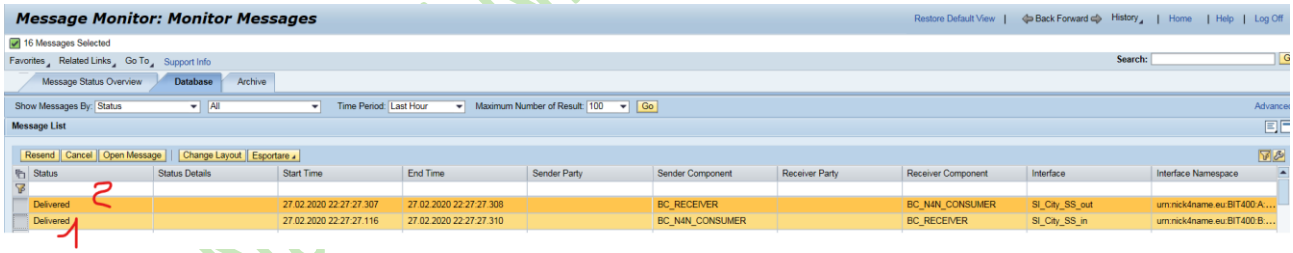
Indirizzo	http://	Protocollo
	<pi_server>:<port>/	Indirizzo del server SAP PI e relativa porta
Path	HttpAdapter/HttpMessageServlet	Servizio relativo all'adapter HTTP
Parametri	interfaceNamespace	Namespace sender
	interface	Service Interface sender
	senderService	Business component sender
	senderParty	Sender Party se usato altrimenti vuoto
	qos	Quality of Service solitamente BE
	NAME	<?xml version="1.0" encoding="UTF-8"?><ns0:MT_CITY_req xmlns:ns0="urn:nick4name.eu:BIT400:A:WS"><NAME>LOM</NAME></ns0:MT_CITY_req>

Impostare *Method* a **GET** coerentemente con il *Message Protocol* del canale HTTP sender e riportare il payload sender nella sezione in basso.



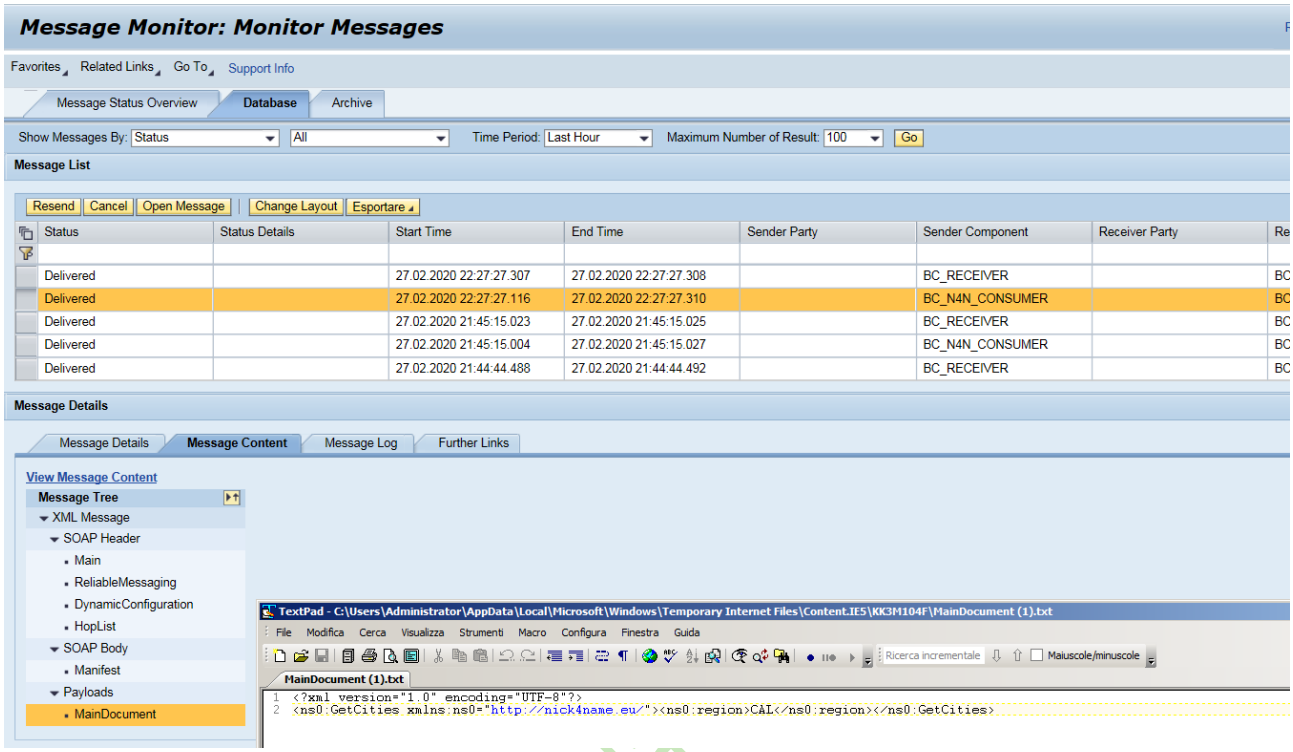
1	Placeholder indicato nel cc HTTP sender in *Mail Payload Parameter Name*
2	Payload di request
3	Payload di response SOAP
Authorization	N4NWSUSER password: training0 (minuscolo)

Monitoring

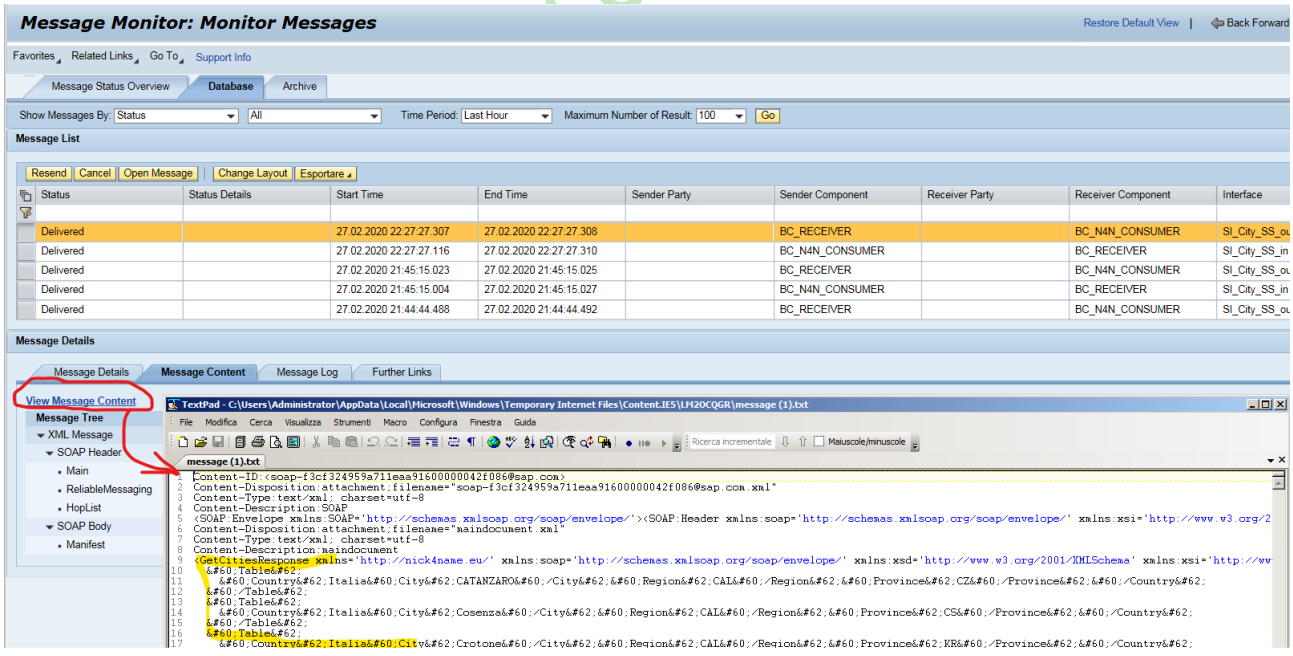


1	Messaggio request HTTP
2	Messaggio response SOAP

HTTP Request monitor



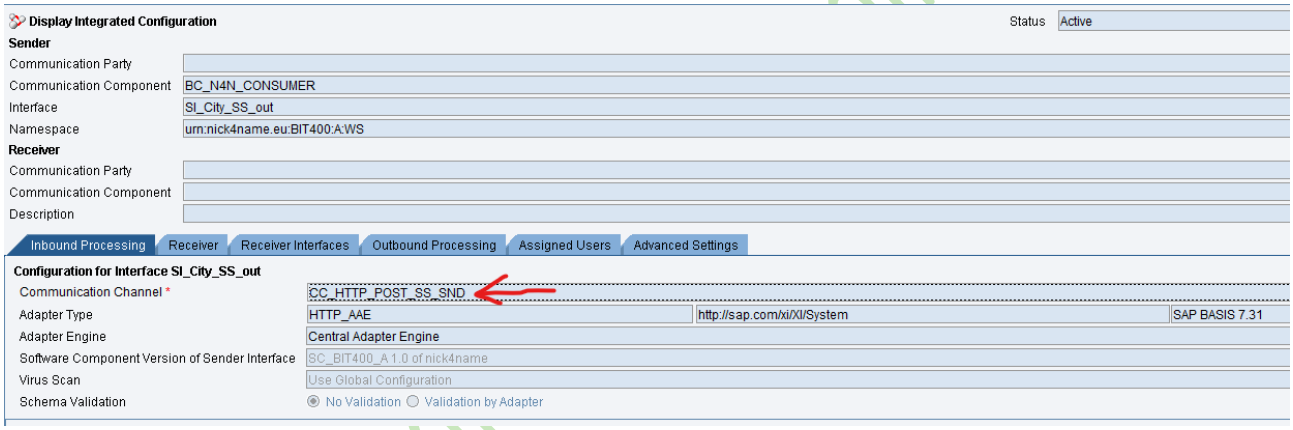
SOAP Response monitor



Modalità HTTP POST

Channel HTTP sender

Integrated Configuration



Test da soapUI

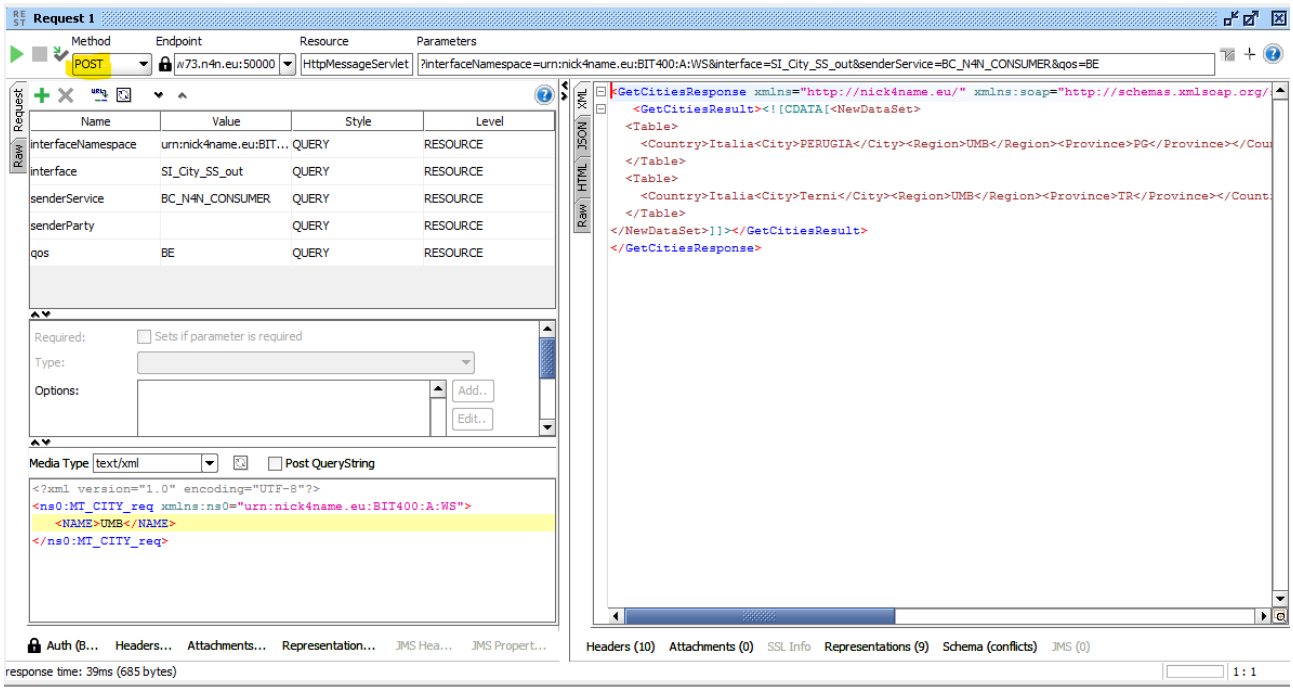
Creare un progetto di tipo REST ed indicare il seguente URL

http://n4n-nw73.n4n.eu:50000/HttpAdapter/HttpMessageServlet?interfaceNamespace=**urn:nick4name.eu:BIT400:A:WS**&interface=**SI_City_SS_out**&senderService=**BC_N4N_CONSUMER**&senderParty=&qos=**BE**

dove

Indirizzo	http://	Protocollo
	<pi_server>:<port>/	Indirizzo del server SAP PI e relativa porta
Path	HttpAdapter/HttpMessageServlet	Servizio relativo all'adapter HTTP
Parametri	interfaceNamespace	Namespace sender
	interface	Service Interface sender
	senderService	Business component sender
	senderParty	Sender Party se usato altrimenti vuoto
	qos	Quality of Service solitamente BE

Impostare *Method* a **POST** coerentemente con il *Message Protocol* del canale HTTP sender e riportare il payload sender nella sezione in basso.

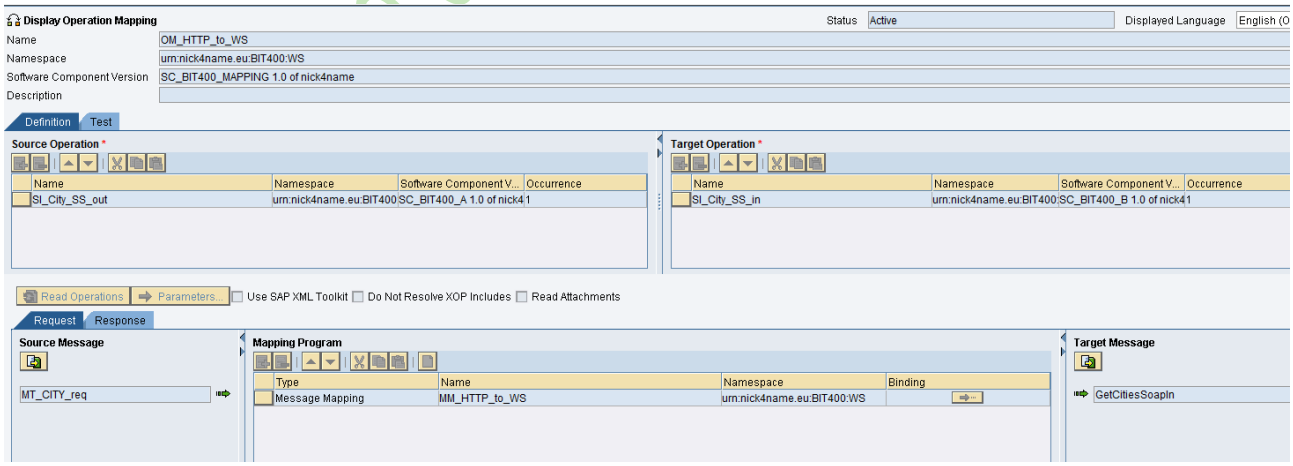


Authorization N4NWSUSER password: training0 (minuscolo)

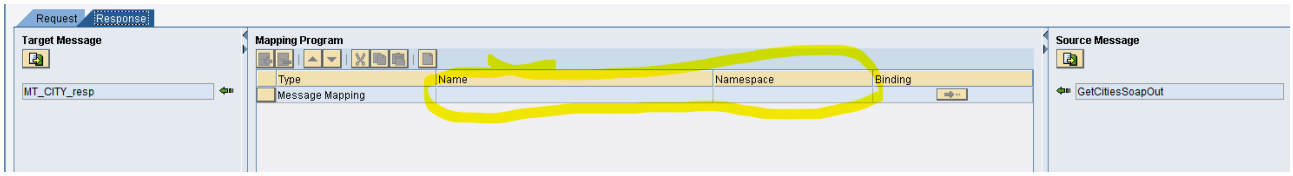
Configurazione lato Enterprise Service Builder

Operation Mapping

Request



Response



In questo caso non è stato implementato alcun mapping di response per cui riceviamo il messaggio di risposta esattamente come è stato generato dal webservice.

Nick4Name di Nicola Martella & F. s.a.s