

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

The screenshot shows the SAP Integrated Configuration interface. At the top, it displays the configuration scenario: CS_N4N_SS_FILE_to_IDOC_MATMAS. Below this, there is a table listing various objects categorized by type (Business System, Communication Channel, Integrated Configuration) and their corresponding objects.

Type	Object
Business System	IBS_COMPANY_A
Business System	IBS_V17_800
Communication Channel	IBS_COMPANY_A CC_File_IDOC_SS_SND
Communication Channel	IBS_V17_800 CC_IDOC_AAE_RCV
Integrated Configuration	IBS_COMPANY_A SI_Material_IDOC_SS_out

Channel file sender

The screenshot shows the configuration of a communication channel named CC_File_IDOC_SS_SND. It is configured as a Sender using a File adapter type, connected to a central adapter engine. The file access parameters specify the source directory as \\N4N-NW73\FS_CORSO_PIOutbound and the file name as FileMaterialIDOC_SS_00.xml.

Cc file sender

CC_File_IDOC_SS_SND

Filenname

FileMaterialIDOC_SS_00.xml



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Source Processing Advanced

Processing Parameters

Quality of Service * Exactly Once
Poll Interval (secs) * 60
Poll Interval (msecs)
Retry Interval (secs)
Processing Mode * Archive
 Add Time Stamp
Archive Directory \\IN4N-NW73\FS_CORSO_PI\Outbound\Archive
Empty-File Handling Do Not Create Message
 Archive Faulty Source Files
 Process Read-Only Files
Processing Sequence By Name
File Type * Binary

Run Operating System Command Before Message Processing

Command Line
Timeout (secs)
 Terminate Program After Timeout

Run Operating System Command After Message Processing

Command Line
Timeout (secs)
 Terminate Program After Timeout

Duplicate Handling

Enable Duplicate Handling

Source Processing Advanced

Adapter-Specific Message Attributes

Set Adapter-Specific Message Attributes

Adapter Status

Status Active
 Advanced Mode



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

<https://www.nick4name.eu>

Channel idoc receiver

Display Communication Channel		Status <input checked="" type="checkbox"/> Active
Communication Channel	CC_IDOC_AAE_RCV	
Party		
Communication Component	BS_V17_800	
Description		
<input type="radio"/> Parameters <input type="radio"/> Identifiers <input type="radio"/> Module		
Adapter Type *	<input type="text" value="IDoc_AAE"/>	<input type="text" value="http://sap.com/xi/XI/System"/> SAP BASIS 7.31
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver		
Transport Protocol *	<input type="text" value="IRFC"/>	
Message Protocol *	<input type="text" value="Idoc XML"/>	
Adapter Engine *	<input type="text" value="Central Adapter Engine"/>	
<input type="radio"/> RFC Parameters <input type="radio"/> Optional Parameters <input type="radio"/> Advanced		
RFC Parameters		
RFC Client Parameters *	<input type="text" value="Default (Recommended)"/>	
RFC Client Parameters		
Destination *	<input type="text" value="XI_IDOC_DEFAULT_DESTINATION_V17"/>	
Release and Version Info		
Interface Version *	<input type="text" value="Interface Version 4.0 or above"/>	
SAP Release *	<input type="text" value="730"/>	
<input type="checkbox"/> Packaging Required		
<input checked="" type="checkbox"/> Queue Processing		

Destination

XI_IDOC_DEFAULT_DESTINATION_V17

RFC Parameters		Optional Parameters	Advanced
Adapter Status			
Status *	<input type="text" value="Active"/>		
Advance Options			
Control Record in IDoc XML *	<input type="text" value="Mandatory (Recommended)"/>		
<input checked="" type="checkbox"/> Apply Control Records from Payload			
<input type="checkbox"/> Apply Sender from Payload			
<input type="checkbox"/> Apply Receiver from Payload			
IDoc Control Headers			
<input type="checkbox"/> Override IDoc Control Headers			
Additional Parameters			
<input type="checkbox"/> Set Additional Parameters			



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Integrated Configuration

<input checked="" type="checkbox"/> Display Integrated Configuration		Status <input checked="" type="checkbox"/> Active														
Sender																
Communication Party <input type="text" value="BS_COMPANY_A"/>																
Communication Component <input type="text" value="SI_Material_IDOC_SS_out"/>																
Interface <input type="text" value="urn:nick4name.eu:BIT400:A:IDOC"/>																
Namespace <input type="text" value="urn:nick4name.eu:BIT400:A:IDOC"/>																
Receiver																
Communication Party <input type="text"/>																
Communication Component <input type="text"/>																
Description <input type="text"/>																
<input checked="" type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																
Configuration for Interface SI_Material_IDOC_SS_out																
Communication Channel * <input type="text" value="CC_File_IDOC_SS_SND"/>																
Adapter Type <input type="text" value="File"/> <input type="text" value="http://sap.com/xi/XI/System"/> <input type="checkbox"/> SAP BASIS 7.31																
Adapter Engine <input type="text" value="Central Adapter Engine"/>																
Software Component Version of Sender Interface <input type="text" value="SC_BIT400_A1.0 of nick4name"/>																
Virus Scan <input type="checkbox"/> Use Global Configuration																
Schema Validation <input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter																
<input checked="" type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																
Type of Receiver Determination <input checked="" type="radio"/> Standard <input type="radio"/> Extended																
Configured Receivers																
<input type="button" value="New"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="text" value="Search"/> <input type="button" value="Go"/>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Condition</td> <td style="width: 40%;">Communication Party</td> <td style="width: 40%;">Communication Component *</td> </tr> <tr> <td></td> <td><input type="text"/></td> <td><input type="text" value="BS_V17_800"/></td> </tr> </table>			Condition	Communication Party	Communication Component *		<input type="text"/>	<input type="text" value="BS_V17_800"/>								
Condition	Communication Party	Communication Component *														
	<input type="text"/>	<input type="text" value="BS_V17_800"/>														
<input checked="" type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																
Receiver																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Type</td> <td style="width: 40%;">Communication Party</td> <td style="width: 40%;">Communication Component</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text" value="BS_V17_800"/></td> </tr> </table>			Type	Communication Party	Communication Component	<input type="text"/>	<input type="text"/>	<input type="text" value="BS_V17_800"/>								
Type	Communication Party	Communication Component														
<input type="text"/>	<input type="text"/>	<input type="text" value="BS_V17_800"/>														
<input checked="" type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																
Receiver Interfaces *																
<input type="checkbox"/> Maintain Order at Runtime																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Condition</td> <td style="width: 20%;">Operation Mapping</td> <td style="width: 20%;">Name *</td> <td style="width: 20%;">Namespace *</td> <td style="width: 10%;">Software Component Version</td> <td style="width: 10%;">Multiplicity</td> <td style="width: 10%;">Parameters</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text" value="OM_SS_File_to_IDOC_MATMAS"/></td> <td><input type="text" value="MATMAS.MATMAS05"/></td> <td><input type="text" value="urn:sap-com:documents:sap:idoc:messages"/></td> <td><input type="text" value="SAP APPL 6.18"/></td> <td><input type="text" value="1"/></td> <td><input type="checkbox"/></td> </tr> </table>			Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters	<input type="text"/>	<input type="text" value="OM_SS_File_to_IDOC_MATMAS"/>	<input type="text" value="MATMAS.MATMAS05"/>	<input type="text" value="urn:sap-com:documents:sap:idoc:messages"/>	<input type="text" value="SAP APPL 6.18"/>	<input type="text" value="1"/>	<input type="checkbox"/>
Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters										
<input type="text"/>	<input type="text" value="OM_SS_File_to_IDOC_MATMAS"/>	<input type="text" value="MATMAS.MATMAS05"/>	<input type="text" value="urn:sap-com:documents:sap:idoc:messages"/>	<input type="text" value="SAP APPL 6.18"/>	<input type="text" value="1"/>	<input type="checkbox"/>										
<input checked="" type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																
Configuration for Interface MATMAS.MATMAS05 urn:sap-com:documents:sap:idoc:messages SAP APPL 6.18																
Communication Channel * <input type="text" value="CC_IDOC_AAE_RCV"/>																
Adapter Type <input type="text" value="IDoc_AAE"/> <input type="text" value="http://sap.com/xi/XI/System"/> <input type="checkbox"/> SAP BASIS 7.31																
Adapter Engine <input type="text" value="Central Adapter Engine"/>																
Software Component Version of Receiver Interface <input type="text" value="SAP APPL 6.18"/>																
Virus Scan <input type="checkbox"/> Use Global Configuration																
Schema Validation <input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter																
Header Mapping																
<input type="checkbox"/> Sender Communication Party <input type="text"/>																
<input type="checkbox"/> Sender Communication Component <input type="text"/>																
<input type="checkbox"/> Receiver Communication Party <input type="text"/>																
<input type="checkbox"/> Receiver Communication Component <input type="text"/>																



Configurazione NWA

Destinations

XI_IDOC_DEFAULT_DESTINATION_V17 è definito in:

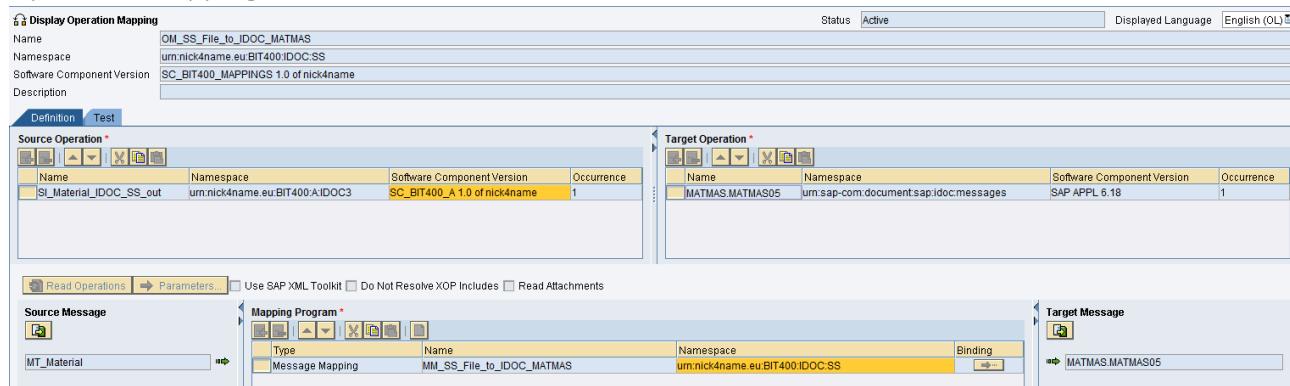


Destination	Destination Type
I18NBackendConnection	RFC Destination
UMEBbackendConnection	RFC Destination
XI_EXCHANGE_PROFILE	RFC Destination
XI_IDOC_DEFAULT_DESTINATION	RFC Destination
XI_IDOC_DEFAULT_DESTINATION_V17	RFC Destination



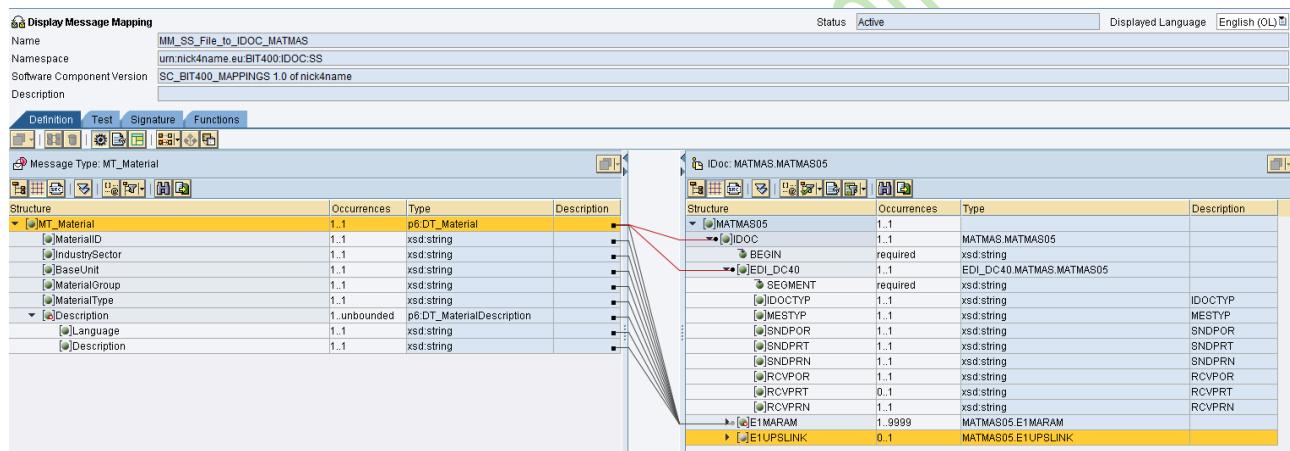
Configurazione lato Enterprise Service Builder

Operation mapping

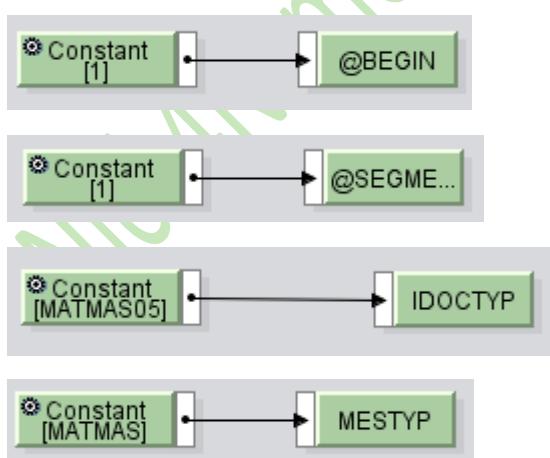


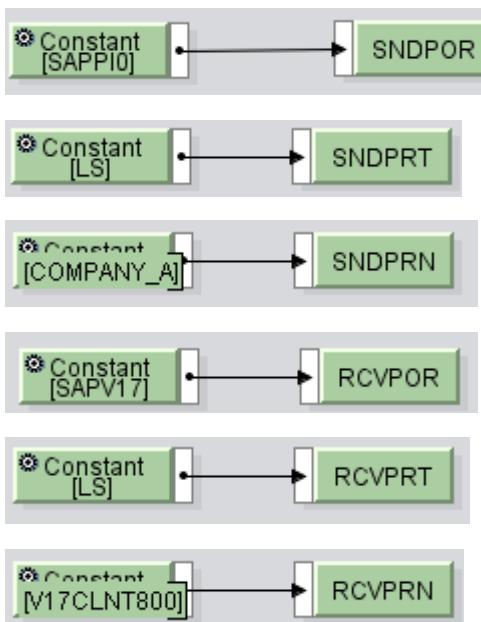
Mapping MM_SS_File_to_IDOC_MATMAS

Record di Controllo

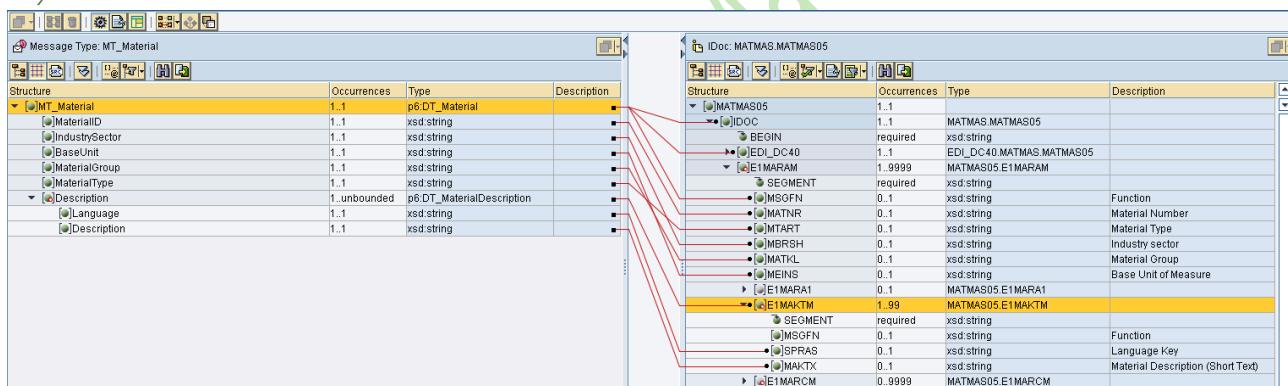


Solo costanti:

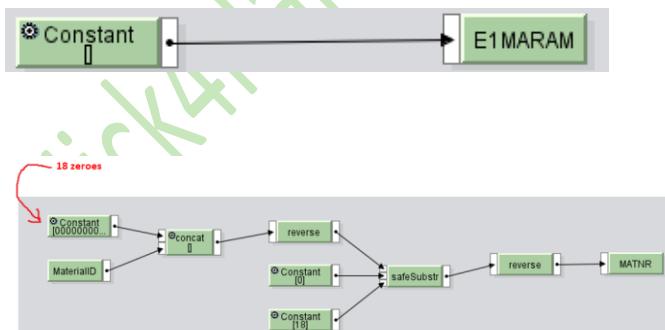




Payload



Mapping campo-campo:



```

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

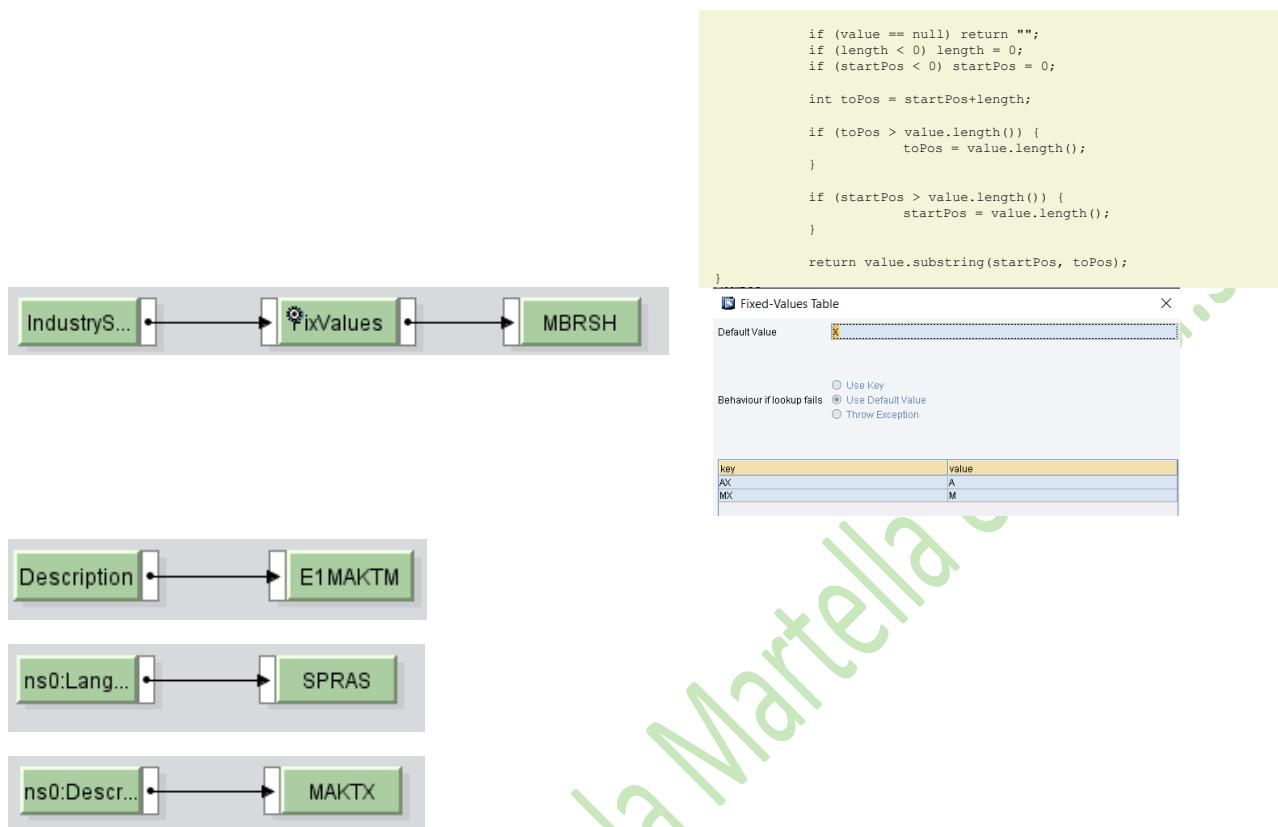
La funzione ritorna la sottostringa di value a partire da startPos
(in base 0) per la lunghezza length.
Es1: value: "ABCDEFGHIJ" startPos=6 length=3 ret: "GHI"
Se la posizione di length a partire da startPos eccede la lunghezza
di value, viene ritornata la sottostringa
a partire da startPos per tutta 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 e' 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.
*/
  
```





Configurazione System Landscape Directory

Abbinamento Business System – Logical System

The screenshot shows the SAP NetWeaver System Landscape Directory interface. In the 'Business Systems' section, a table lists several systems, with 'BS_COMPANY_A' highlighted in yellow. The 'Integration' tab is selected in the 'BS_COMPANY_A Details' section, where the logical system name is set to 'COMPANY_A'. A watermark 'Nick4Name di Nicola Martella & F. s.a.s' is visible across the page.

Name	Technical System
BS_COMPANY_A	BS_COMPANY_A on company_a
BS_N4N_COMPANY	TS_N4N_COMPANY on n4n_company
BS_N4N_NW73	TS_N4N_NW73 on n4n_nw 73
BS_N4N_RECEIVER	TS_N4N_RECEIVER on nick4name
BS_N4N_SENDER	TS_N4N_SENDER on nick4name

The dialog box displays adapter-specific identifiers. The 'Doc Adapter' section shows the logical system name as 'COMPANY_A', which is highlighted with a yellow circle. Other sections include 'IDoc Adapter and RFC Adapter' (R/3 System ID and Client fields) and 'Marketplace Adapter' (DDID field). Buttons at the bottom include a magnifying glass icon and a 'Close' button.



Configurazione lato ECC

[BD64] Modello di distribuzione

Training MATMAS to/from PIO	N4N_MATMAS
▶ Nick4Name s.a.s	N4N_SAS
▶ IDES ALE Central system (client 800)	V17CLNT800
▶ SAP PI Nick4Name	PIOCLNT001
▶ 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>SAPPIO</SNDPOR>
      <SNDPRT>LS</SNDPRT>
      <SNDRN>COMPANY_A</SNDRN>
      <RCVPOR>SAPV17</RCVPOR>
      <RCVPRT>LS</RCVPRT>
      <RCVPRN>V17CLNT800</RCVPRN>
    </EDI_DC40>
    - <E1MARAM SEGMENT="1">
      <MSGFN>009</MSGFN>
      <MATNR>0000000000002017</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

Display Configuration Scenario

Configuration Scenario: CS_N4N_SS_IDOC_to_FILE_DEBMAS

Description:

ES Repository Model		Objects	Configuration Overview							
									Search	Go
Type	Object									
Business System	BS_COMPANY_A									
Business System	BS_V17_800									
Communication Channel	BS_COMPANY_A CC_File_IDOC_DEBMAS_00_RCV									
Communication Channel	BS_V17_800 CC_IDOC_AAE_SND									
Integrated Configuration	BS_V17_800 DEBMAS.DEBMAS06									

Channel file sender

Display Communication Channel

Communication Channel: CC_IDOC_AAE_SND

Status: Active

Party: BS_V17_800

Description:

Parameters		Identifiers	Module
Adapter Type *	IDoc_AAE	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input checked="" type="radio"/> Sender <input type="radio"/> Receiver			
Transport Protocol *	IRFC		
Message Protocol *	Idoc XML		
Adapter Engine *	Central Adapter Engine		
RFC Parameters	Ack Settings	Advanced	
RFC Parameters			
RFC Server Parameters * Default (Recommended)			
RFC Server Parameters			
Ack Destination: XI_IDOC_DEFAULT_DESTINATION_V17			
Inbound Message Settings			
<input checked="" type="checkbox"/> Multiple IDocs in Single XI Message (or IDOCXML) <input type="checkbox"/> EOIO enabled			



RFC Parameters | **Ack Settings** | Advanced

Acknowledgement Parameters

- System Ack Ok Requested
- System Ack Error Requested
- Application Ack Ok Requested
- Application Ack Error Requested
- ALEAUD Special Handling Needed

Channel file receiver

Display Communication Channel

Communication Channel	CC_File_IDOC_DEBMAS_00_RCV	Status	Active
Party			
Communication Component	BS_COMPANY_A		
Description			
Parameters	Identifiers	Module	
Adapter Type *	File	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input type="radio"/> Sender	<input checked="" type="radio"/> Receiver		
Transport Protocol *	File System (NFS)		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		
Target	Processing	Advanced	

File Access Parameters

Target Directory *	\N4N-NW73\FS_CORSO_PI\Inbound
<input type="checkbox"/> Create Target Directory	
File Name Scheme *	FileArticle_IDOC_DEBMAS_00_%matid%_%matty%.xml

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

Target | **Processing** | Advanced

Processing Parameters

File Construction Mode *	Add Time Stamp
Write Mode	Directly
Empty-Message Handling	Write Empty File
Maximum Concurrency	1
File Type *	Binary

Run Operating System Command Before Message Processing

Command Line	
Timeout (secs)	
<input type="checkbox"/> Terminate Program After Timeout	

Run Operating System Command After Message Processing

Command Line	
Timeout (secs)	
<input type="checkbox"/> Terminate Program After Timeout	



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Target Processing Advanced

Variable Substitution (Target Directory/File Name Scheme)

Enable

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

Disable Security Checks

Adapter-Specific Message Attributes

Use Adapter-Specific Message Attributes

Adapter Status

Status

Advanced Mode

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

Integrated Configuration

Display Integrated Configuration

Sender

Communication Party

Communication Component

Interface

Namespace

Receiver

Communication Party

Communication Component

Description

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users** **Advanced Settings**

Configuration for Interface DEBMAS.DEBMAS06

Communication Channel *

Adapter Type <http://sap.com/xi/XI/System> SAP BASIS 7.31

Adapter Engine

Software Component Version of Sender Interface

Virus Scan

Schema Validation No Validation Validation by Adapter

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users** **Advanced Settings**

Type of Receiver Determination Standard Extended

Configured Receivers

Condition	Communication Party	Communication Component *
		BS_COMPANY_A



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

The screenshot shows the SAP Enterprise Service Builder interface for configuring a receiver interface. The top navigation bar includes tabs for Inbound Processing, Receiver, Receiver Interfaces, Outbound Processing, Assigned Users, and Advanced Settings. The current view is under the 'Receiver Interfaces' tab.

Sender:

- Communication Party: BS_V17_800
- Interface: DEBMAS_DEBMAS06
- Namespace: urn:sap:com:document:sap:idoc:messages

Receiver:

- Communication Party: (empty)
- Communication Component: (empty)
- Description: (empty)

Configuration for Interface dummy | dummy:

- Communication Channel:** CC_File_IDOC_DEBMAS_00_RCV
- Adapter Type:** File (http://sap.com/xi/XI/System) - SAP BASIS 7.31
- Adapter Engine:** Central Adapter Engine
- Software Component Version of Receiver Interface:** (empty)
- Virus Scan:** Use Global Configuration
- Schema Validation:** (radio button selected) No Validation (Validation by Adapter)
- Header Mapping:** (checkboxes available for Sender and Receiver Communication Party and Component, all unchecked)

Configurazione lato Enterprise Service Builder

Nessuna configurazione implementata



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Configurazione lato ECC

[WE20] Partner Profile

Partner profiles

Partner	Description
• ID3IDES802	L23 Client 800 - PDR
• L23CLNT800	M13 Client 800 - MDM
• LDM_001	MDM
• MDM_002	MDM
• MDM_003	MDM
• MDM_004	MDM
• MDM_005	MDM
• MDM_006	MDM
• MDM_007	MDM
• MDM_008	MDM
• MDM_009	MDM
• MDM_010	MDM
• MDM_MIGRAT	MDM
• MDS_00_800	Master Data Management Server
• N4N_SAS	Nick4Name s.a.s
• OMOLCLNT800	P13 Client 800
• P13CLNT800	Log. System - PFS - Master Data
• PFS_ID_T	SAP PI NickName
• PI0CLNT001	Productive system (client 811)
• PRODUCTION	Business Connector Buyer CRM/BPP do not d
• PS_02_200	Business Connector Supplier CRM/BPP do not d
• QVBLCLNT705	Kaba Benzing
• REC_00_800	BC CONSOL
• RPMCLNT800	BC tRFC Listener on 'trusty' (10.4.19.87)
• RI_00_800	IHC: loopback inbound IDocs to local system
• SALES	SAP PI PIO
• SUB_CC1	SAP PI PIO on AAE
• SUB_CC2	LS Production
• SUPPLY188	LS Sales
• SUS_00_338	KK2 Anbindung für BDE-System

Partner profiles: Outbound parameters

Partner Role	Message Type	Message va...	MessageFu...	Test
DEBMAS	DEBMAS			
MATMAS	MATMAS			

Outbound Options

Receiver port	Message Control	Post Processing: Permitted Agent	Tel...
N4N_PI0AAE	Transactional RFC	SAP PI PIO on AAE	
Pack. Size	1		
Queue Processing			
Output Mode			
<input checked="" type="radio"/> Transfer IDoc Immed.	Output Mode	2	
<input type="radio"/> Collect IDocs			
IDoc Type			
Basic type	DEBMAS6	Customer master data distrib...	
Extension			
View			
<input checked="" type="checkbox"/> Cancel Processing After Syntax Error			
Seg. release in IDoc type		Segment Appl. Rel.	

[WE21] Definizione porte IDoc

Ports in IDoc processing

Ports	Description
• Ports	
• Transactional RFC	
• A000000011	Port to ICARO_IZY
• A000000014	Port for PFS_ID - Master Data
• A000000015	Port for PFS_ID - Trans Data
• A000000021	Business Connector Buyer CRM/BPP do not d
• A000000022	Business Connector Supplier CRM/BPP do not d
• A000000033	Kaba Benzing
• A000000034	BC CONSOL
• ID3BCTRSTY	BC tRFC Listener on 'trusty' (10.4.19.87)
• IDES_MSC20	IHC: loopback inbound IDocs to local system
• LOCAL	SAP PI PIO
• N4N_PIO	SAP PI PIO on AAE
• N4N_PI0AAE	LS Production
• PRODUCTION	LS Sales
• SALES	KK2 Anbindung für BDE-System
• SUB_CC2	XI Integration Server
• XI_00_800	
• File	
• CPI-C	
• ABAP-PI	
• XML File	
• XML HTTP	

Port

N4N_PI0AAE	
Description	SAP PI PIO on AAE
Version	
<input type="radio"/> IDoc rec.types SAP Release 3.0/3.1	
<input checked="" type="radio"/> IDoc record types SAP Release 4.x	
RFC destination	PIO_AAE



[SM59] Configurazione Destinazioni RFC

Configuration of RFC Connections

RFC Connections	Type	Comment
ABAP Connections	3	
HTTP Connections to External Server	G	
HTTP Connections to ABAP System	H	
Internal Connections	I	
Logical Connections	L	
TCP/IP connections	T	
ALEMANU	T	Test ALE communication with Manugistics
AL_RFC2.1	T	Archive RFC2.1
AL_RFC3.0	T	ArchiveLink
AMADEUS_JRES_TRAINING	T	
PFS_T19_UP	T	Gr. 19 PFS-RFC Update
PFS_T20_M	T	Gr. 20 PFS-RFC Masterdata
PFS_T20_T	T	Gr. 20 PFS-RFC Trans.data
PFS_T20_UP	T	Gr. 20 PFS-RFC Update
PIO_AAE	T	Program ID on PIO for IDoc outbound
PM_TABLE	T	Create R/3 structures in MSAccess
RS_WINDOWS_SERVER	T	Fill MSAccess with data
RESTART_SERVICES	T	Desktop integration for Windows (WinWord 6.0)
REUTERS_ASYNC	T	

RFC Destination PIO_AAE

Connection Test Unicode Test

RFC Destination: PIO_AAE
 Connection Type: TCP/IP Connection
 Description:

Description 1: Program ID on PIO for IDoc outbound
 Description 2:
 Description 3:

Administration Technical Settings Logon & Security **MDMP & Unicode** Special Options

Activation Type:
 Start on Application Server
 Start on Explicit Host
 Start on Front-End Work Station
 Registered Server Program
 Program ID: X1_IDOC_DEFAULT_PIO

Start Type of External Program:
 Default Gateway Value
 Remote Execution
 Remote Shell
 Secure Shell

CPI-C Timeout:
 Default: Gateway Value
 Specify Timeout: 60 Defined Value in Seconds

Gateway Options:
 Gateway Host: N4N-NW73
 Gateway service: sapgw00

Nick4Name

Administration Technical Settings Logon & Security **MDMP & Unicode** Special Options

Communication Type with Target System:
 Non-Unicode
MDMP Settings
 Inactive Active [Edit](#)
 Unicode

Character Conversion:
 Default Setting Ignore Error, Error Indicator: '#' = U+0023
 Short Dump After Conversion Error
 Ignore Conversion Errors
 Display of Conversion Errors
 Error Indicator: # U+ 0023



Test scenario da ECC

[BD12] Send Customers

Send Customers

Customer	484	to	484
Class		to	
Output type	DEBMAS		
Logical system	PIOCLNT001		

Parallel processing

Server group: []
No. of customers per process: 20

[WE02] IDoc monitor

IDocs	Num...
Selected IDocs	000636
Outbound IDocs	000632
DEBMAS	000628
Status 29	000082
Status 3	000546
MATMAS	000004
Inbound IDocs	000004
ALEAUD	000004

Outbound IDocs DEBMAS Status: 03

IDoc Number	Segm...	Stat...	Stat...	Partner	Basic type	Date created	Time	Messg.T...	Direction	Port
000000000720754	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	09:11:10	DEBMAS	Outbox	N4N_PIOAAE
000000000720755	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	09:19:59	DEBMAS	Outbox	N4N_PIOAAE
000000000720756	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	09:24:37	DEBMAS	Outbox	N4N_PIOAAE
000000000720762	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	10:11:48	DEBMAS	Outbox	N4N_PIOAAE
000000000720766	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	11:48:44	DEBMAS	Outbox	N4N_PIOAAE
000000000720767	9	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	11:51:13	DEBMAS	Outbox	N4N_PIOAAE
000000000720768	10	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	11:51:13	DEBMAS	Outbox	N4N_PIOAAE
000000000720769	10	03	000	LS/ /PIOCLNT001	DEBMAS06	20.02.2020	11:51:13	DEBMAS	Outbox	N4N_PIOAAE

IDoc Adapter Monitor (Java)

Monitoring Home

System: PI0

Monitoring Configuration and Administration Testing

Common Integration Engine Adapter Engine Business Process Engine Mapping Runtime

Message Monitor
Get an overview of message processing, including aggregated and detailed information about status of messages. Identify errors in message processing and perform problem isolation. Manage individual messages, for example, by resending individual message versions.

IDOC Adapter Monitor
Monitor IDoc message traffic and metadata processed on the Advanced Adapter Engine.

Channel Independent Logs
Display processing steps of adapters that cannot be assigned to a particular communication channel. Select an adapter to display information about all entries for processing for this adapter.

Cache Monitor
Monitor cache objects in the SAP NetWeaver Process Integration runtime caches of the Adapter Engine.

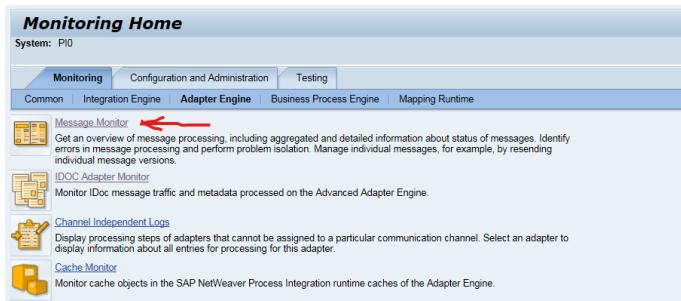
IDoc Adapter Monitor: Message Monitor

ID	Message ID	Partner	Status	...
000000000720754
000000000720755
000000000720756
000000000720762
000000000720766
000000000720767
000000000720768
000000000720769



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Message Monitor (Java)



Message Monitor: Monitor Messages

Message Status Overview		Database		Archive	
Time Range	20.02.2020 11:00:00	20.02.2020 12:00:00	Go		
Overview of Messages and their Statuses					
Change Level	Expires	0	Scheduled	Success	Canceled
Sender Party	BS_V17_000	0	0	0	0
Receiver Party	BS_COMPANY_A	0	0	0	0
Receiver Component	BS_NAN_RECEIVER	0	0	0	0
Sender Interface	SI_Article_IDOC_D5_nb	0	0	0	0

Status Values		Attributes			
Cancel	Resend	Status group	Status value	Status Details	Number
		Delivered	Delivered		542

Communication Channel Monitor (Java)



Communication Channels **Availability Planning**

Start		Stop		Automatic Control		External Control		Mass Change		Ping Channel		Maximum Number of Results	
Find: CC_IDOC_AAE_SND with Status: All												Go	
Channels Channel Availability													
Communication Channel	Status	Short Log	Control ...	Processing Err...	Party	Comp...	Adapt...	Na...					
CC_IDOC_AAE_SND	Runn...	started and running s...	Manual		BS_V1...	IDoc_A...	http...						

Communication Channels **Availability Planning**

Start		Stop		Automatic Control		External Control		Mass Change		Ping Channel		
Find: CC_File_IDOC_DEBMAS_00_RCV with Status: All												Go
Channels Channel Availability												
Communication Channel	Status	Short Log	Control ...	Processing Err...	Party							
CC_File_IDOC_DEBMAS_00_RCV	Runn...	Functioning	Automatic									



Scenario CS_N4N_SS_FILE_toFILE_CC

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

Configurazione lato Configuration

The screenshot shows the SAP ES Repository Model interface. At the top, there is a search bar and a toolbar with various icons. Below the toolbar, a table lists objects categorized by type. The types listed are Business System, Communication Channel, and Integrated Configuration. The objects shown are:

Type	Object
Business System	BS_N4N_RECEIVER
Business System	BS_N4N_SENDER
Communication Channel	BS_N4N_RECEIVER CC_File_CC_00_SS_RCV
Communication Channel	BS_N4N_SENDER CC_File_CC_00_SS_SND
Integrated Configuration	BS_N4N_SENDER SI_Material_CC_SS_out

Channel file sender

The screenshot shows the SAP Display Communication Channel configuration screen. The communication channel is named CC_File_CC_00_SS_SND. The parameters section includes:

- Adapter Type: File
- Transport Protocol: File System (NFS)
- Message Protocol: File Content Conversion
- Adapter Engine: Central Adapter Engine

The Source tab is selected, showing the following file access parameters:

- Source Directory: IN4N-NW73FS_CORSO_PIOutbound
- File Name: FileMaterialSSCC_00.txt
- Advanced Selection for Source File (checkbox)
- Additional File(s) (checkbox)



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Source **Processing** **Content Conversion** **Advanced**

Processing Parameters

Quality of Service *	Exactly Once
Poll Interval (secs) *	60
Poll Interval (msecs)	
Retry Interval (secs)	
Processing Mode *	Archive
<input checked="" type="checkbox"/> Add Time Stamp	
Archive Directory	\N4N-NW73\FS_CORSO_PI\OutboundArchive
Empty-File Handling	Do Not Create Message
<input type="checkbox"/> Archive Faulty Source Files	
<input type="checkbox"/> Process Read-Only Files	
Processing Sequence	By Name
File Type *	Binary

Run Operating System Command Before Message Processing

Command Line	
Timeout (secs)	
<input type="checkbox"/> Terminate Program After Timeout	

Run Operating System Command After Message Processing

Command Line	
Timeout (secs)	
<input type="checkbox"/> Terminate Program After Timeout	

Duplicate Handling

<input type="checkbox"/> Enable Duplicate Handling
--

Source **Processing** **Content Conversion** **Advanced**

Content Conversion Parameters

Document Name	MT_Material_CC
Document Namespace	urn:nick4name.eu:BIT400:A:File_CC
Document Offset	
Recordset Name	documentName
Recordset Namespace	
Recordset Structure *	recordset.*
Recordset Sequence *	Ascending
Recordsets per Message	
Key Field Name	
Key Field Type	String (Case-Sensitive)

Name	Value
recordset.fieldNames	MaterialID,IndustrySector,BaseUnit,MaterialGroup,MaterialType
recordset.fieldFixedLengths	18,3,2,3,3

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
Recordset structure	recordset.*
recordset.fieldNames	MaterialID,IndustrySector,BaseUnit,MaterialGroup,MaterialType
recordset.fieldFixedLengths	18,3,2,3,3



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Channel file receiver

Display Communication Channel		Status <input checked="" type="checkbox"/> Active						
Communication Channel	CC_File_CC_00_SS_RCV							
Party								
Communication Component	BS_N4N_RECEIVER							
Description								
<input type="button" value="Parameters"/> <input type="button" value="Identifiers"/> <input type="button" value="Module"/>								
Adapter Type *	<input type="text" value="File"/>	<input type="text" value="http://sap.com/xi/XI/System"/> SAP BASIS 7.31						
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver								
Transport Protocol *	<input type="text" value="File System (NFS)"/>							
Message Protocol *	<input type="text" value="File Content Conversion"/>							
Adapter Engine *	<input type="text" value="Central Adapter Engine"/>							
<input type="button" value="Target"/> <input type="button" value="Processing"/> <input type="button" value="Content Conversion"/> <input type="button" value="Advanced"/>								
File Access Parameters								
Target Directory *	<input type="text" value="\\N4N-NW73\FS_CORSO_PI\Inbound"/>							
<input type="checkbox"/> Create Target Directory								
File Name Scheme *	<input type="text" value="FileArticleSSCC_00_.txt"/>							
<input type="button" value="Target"/> <input checked="" type="button" value="Processing"/> <input type="button" value="Content Conversion"/> <input type="button" value="Advanced"/>								
Processing Parameters								
File Construction Mode *	<input type="text" value="Add Time Stamp"/>							
Write Mode	<input type="text" value="Directly"/>							
Empty-Message Handling	<input type="text" value="Write Empty File"/>							
Maximum Concurrency	<input type="text" value="1"/>							
File Type *	<input type="text" value="Binary"/>							
<input type="button" value="Target"/> <input type="button" value="Processing"/> <input type="button" value="Content Conversion"/> <input type="button" value="Advanced"/>								
Content Conversion Parameters								
Recordset Structure *	<input type="text" value="documentName,recordset"/>							
<table border="1"> <tr> <td>Name</td> <td>Value</td> </tr> <tr> <td>documentName.fieldSeparator</td> <td>'nl'</td> </tr> <tr> <td>recordset.fieldFixedLengths</td> <td>18,2,3,3,3</td> </tr> </table>			Name	Value	documentName.fieldSeparator	'nl'	recordset.fieldFixedLengths	18,2,3,3,3
Name	Value							
documentName.fieldSeparator	'nl'							
recordset.fieldFixedLengths	18,2,3,3,3							

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



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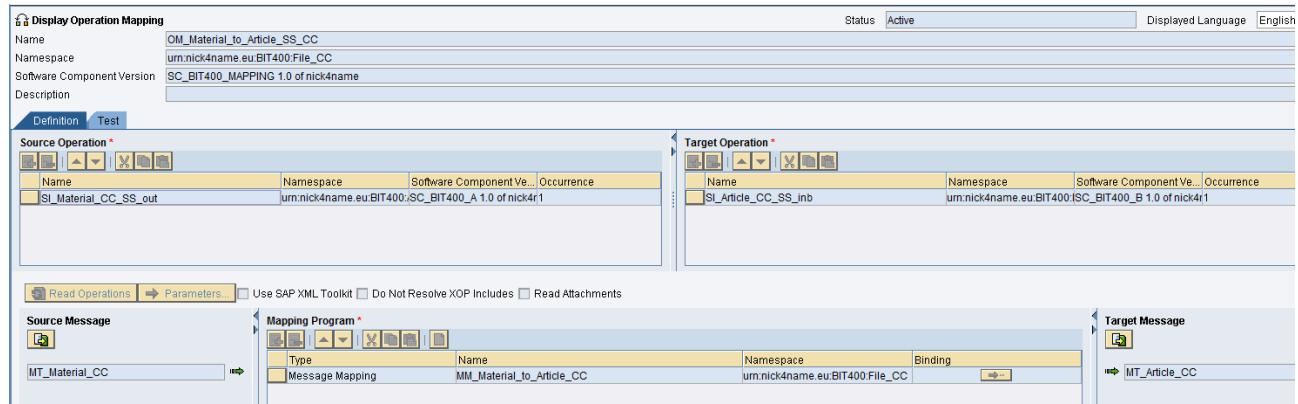
Integrated configuration

Display Integrated Configuration		Status Active
Sender		
Communication Party	BS_N4N_SENDER	
Communication Component	SI_Material_CC_SS_out	
Interface	urn:nick4name.eu:BIT400:A:File_CC	
Namespace		
Receiver		
Communication Party		
Communication Component		
Description		
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings		
Configuration for Interface SI_Material_CC_SS_out		
Communication Channel *	CC_File_CC_00_SS_SND	
Adapter Type	File	http://sap.com/xi/XI/System
Adapter Engine	Central Adapter Engine	
Software Component Version of Sender Interface	SC_BIT400_A 1.0 of nick4name	
Virus Scan	Use Global Configuration	
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter	
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings		
Type of Receiver Determination <input checked="" type="radio"/> Standard <input type="radio"/> Extended		
Configured Receivers		
Search <input style="width: 100px; vertical-align: middle;" type="text"/>	X	
Condition	Communication Party	Communication Component *
	BS_N4N_RECEIVER	
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings		
Receiver		
Type	Communication Party	Communication Component
Communication Component	BS_N4N_RECEIVER	
X		
Receiver Interfaces * <input type="checkbox"/> Maintain Order at Runtime		
Condition	Operation Mapping	Name *
OM_Material_to_Article_SS_CC	SI_Article_CC_SS_inb	urn:nick4name.eu:BIT400:B:File_CC
	SC_BIT400_B 1.0 of nick4name	1
X		
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings		
Configuration for Interface SI_Article_CC_SS_inb urn:nick4name.eu:BIT400:B:File_CC SC_BIT400_B 1.0 of nick4name		
Communication Channel *	CC_File_CC_00_SS_RCV	
Adapter Type	File	http://sap.com/xi/XI/System
Adapter Engine	Central Adapter Engine	
Software Component Version of Receiver Interface	SC_BIT400_B 1.0 of nick4name	
Virus Scan	Use Global Configuration	
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter	
Header Mapping		
<input type="checkbox"/> Sender Communication Party	<input type="button" value="Map"/>	
<input type="checkbox"/> Sender Communication Component	<input type="button" value="Map"/>	
<input type="checkbox"/> Receiver Communication Party	<input type="button" value="Map"/>	
<input type="checkbox"/> Receiver Communication Component	<input type="button" value="Map"/>	

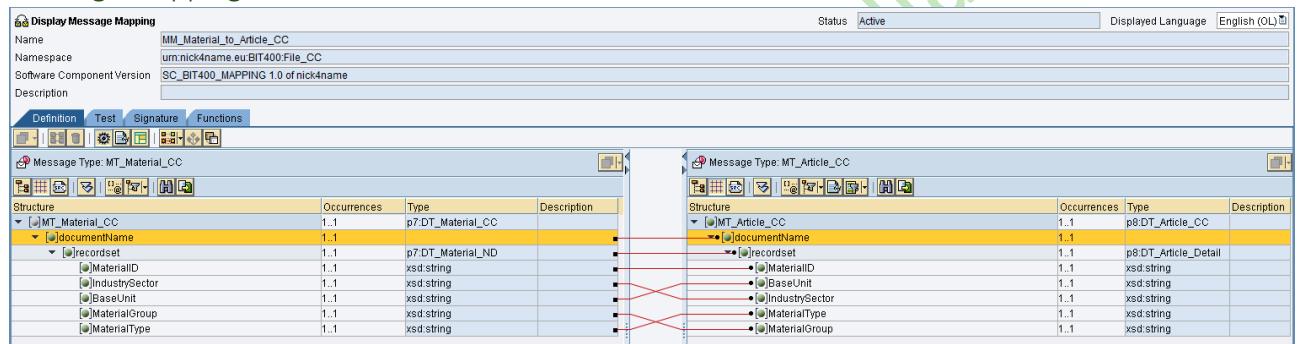


Configurazione lato Enterprise Service Builder

Operation mapping



Message mapping



Scenario FILE_to_FILE_XML_00

Scenario FILE --> FILE

Obiettivo Determinazione filename receiver via mapping

Configurazione lato Configuration

Type	Object
Business System	BS_N4N_RECEIVER
Business System	BS_N4N_SENDER
Communication Channel	BS_N4N_RECEIVER CC_File_XML_00_SS_RCV
Communication Channel	BS_N4N_SENDER CC_File_XML_00_SS_SND
Integrated Configuration	BS_N4N_SENDER SI_Material_XML_SS_out

Channel sender file

Communication Channel	CC_File_XML_00_SS_SND	Status	Active
Party			
Communication Component	BS_N4N_SENDER		
Description			
<input checked="" type="radio"/> Parameters <input type="radio"/> Identifiers <input type="radio"/> Module			
Adapter Type *	<input type="text" value="File"/>	<input type="text" value="http://sap.com/xi/UI/System"/>	SAP BASIS 7.31
<input checked="" type="radio"/> Sender <input type="radio"/> Receiver			
Transport Protocol *	<input type="text" value="File System (NFS)"/>		
Message Protocol *	<input type="text" value="File"/>		
Adapter Engine *	<input type="text" value="Central Adapter Engine"/>		
<input type="radio"/> Source <input type="radio"/> Processing <input type="radio"/> Advanced			
File Access Parameters			
Source Directory *	<input type="text" value="\\IN4N-NW73\FS_CORSO_PI\Outbound"/>		
File Name *	<input type="text" value="FileMaterialXML_SS_00.xml"/>		
<input type="checkbox"/> Advanced Selection for Source File <input type="checkbox"/> Additional File(s)			

<input checked="" type="checkbox"/> Set Adapter-Specific Message Attributes <input checked="" type="checkbox"/> File Name	
<input type="checkbox"/> Directory <input type="checkbox"/> File Type <input type="checkbox"/> Source File Size <input type="checkbox"/> Source File Time Stamp	
Adapter Status	
Status: Active	
<input type="checkbox"/> Advanced Mode	



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Channel receiver file

Display Communication Channel

Communication Channel	CC_File_XML_00_SS_RCV	Status	Active
Party			
Communication Component	BS_N4N_RECEIVER		
Description			

Parameters **Identifiers** **Module**

Adapter Type *	File	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	File System (NFS)		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		

Target **Processing** **Advanced**

File Access Parameters

Target Directory *	\W4N-NW73IFS_CORSO_PIInbound
<input type="checkbox"/> Create Target Directory	
File Name Scheme *	FileArticle_SS_00_xml

Target **Processing** **Advanced**

Variable Substitution (Target Directory/File Name Scheme)

Enable

Adapter-Specific Message Attributes

Use Adapter-Specific Message Attributes
 Fail if Adapter-Specific Message Attributes Missing
 File Name ←
 Directory
 File Type

Adapter Status

Status	Active
--------	--------

Advanced Mode

Integrated Configuration

Display Integrated Configuration

Sender	Status Active		
Communication Party			
Communication Component	BS_N4N_SENDER		
Interface	SI_Material_XML_SS_out		
Namespace	urn:nick4name.eu:BIT400:A:File		

Receiver

Communication Party			
Communication Component			
Description			

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users** **Advanced Settings**

Configuration for Interface SI_Material_XML_SS_out

Communication Channel *	CC_File_XML_00_SS_SND	http://sap.com/xi/XI/System	SAP BASIS 7.31
Adapter Type	File		
Adapter Engine	Central Adapter Engine		
Software Component Version of Sender Interface	SC_BIT400_A 1.0 of nick4name		
Virus Scan	Use Global Configuration		
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter		

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users** **Advanced Settings**

Type of Receiver Determination Standard Extended

Configured Receivers

Condition	Communication Party	Communication Component *
		BS_N4N_RECEIVER



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Receiver

Type	Communication Party	Communication Component
Communication Component	BS_N4N_RECEIVER	

Receiver Interfaces *

Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters
	OM_Material_to_Article_SS	SI_Article_XML_SS_inb	urn:nick4name.eu:BIT400:File	SC_BIT400_B 1.0 of nick4name	1	

Inbound Processing / Receiver / Receiver Interfaces / Outbound Processing / Assigned Users / Advanced Settings

Configuration for Interface SI_Article_XML_SS_inb | urn:nick4name.eu:BIT400:B:File | SC_BIT400_B 1.0 of nick4name

Communication Channel *	CC_File_XML_00_SS_RCV		
Adapter Type	File	http://sap.com/xi/II/System	SAP BASIS 7.31
Adapter Engine	Central Adapter Engine		
Software Component Version of Receiver Interface	SC_BIT400_B 1.0 of nick4name		
Virus Scan	Use Global Configuration		
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter		
Header Mapping	<input type="checkbox"/> Sender Communication Party <input type="checkbox"/> Sender Communication Component <input type="checkbox"/> Receiver Communication Party <input type="checkbox"/> Receiver Communication Component		

Configurazione Enterprise Service Builder Operation Mapping

Display Operation Mapping

Name	OM_Material_to_Article_SS	Status	Active
Namespace	urn:nick4name.eu:BIT400:File	Displayed Language	English (OL)
Software ComponentVersion	SC_BIT400_MAPPING 1.0 of nick4name		
Description			

Source Operation *

Name	Namespace	Software Component Ve... Occurrence
SI_Material_XML_SS_out	urn:nick4name.eu:BIT400:SC_BIT400_A 1.0 of nick4f1	

Target Operation *

Name	Namespace	Software Component Ve... Occurrence
SI_Article_XML_SS_inb	urn:nick4name.eu:BIT400:SC_BIT400_B 1.0 of nick4f1	

Mapping Program *

Type	Name	Namespace	Binding
Message Mapping	MM_Material_to_Article	urn:nick4name.eu:BIT400:File	

Source Message

Target Message

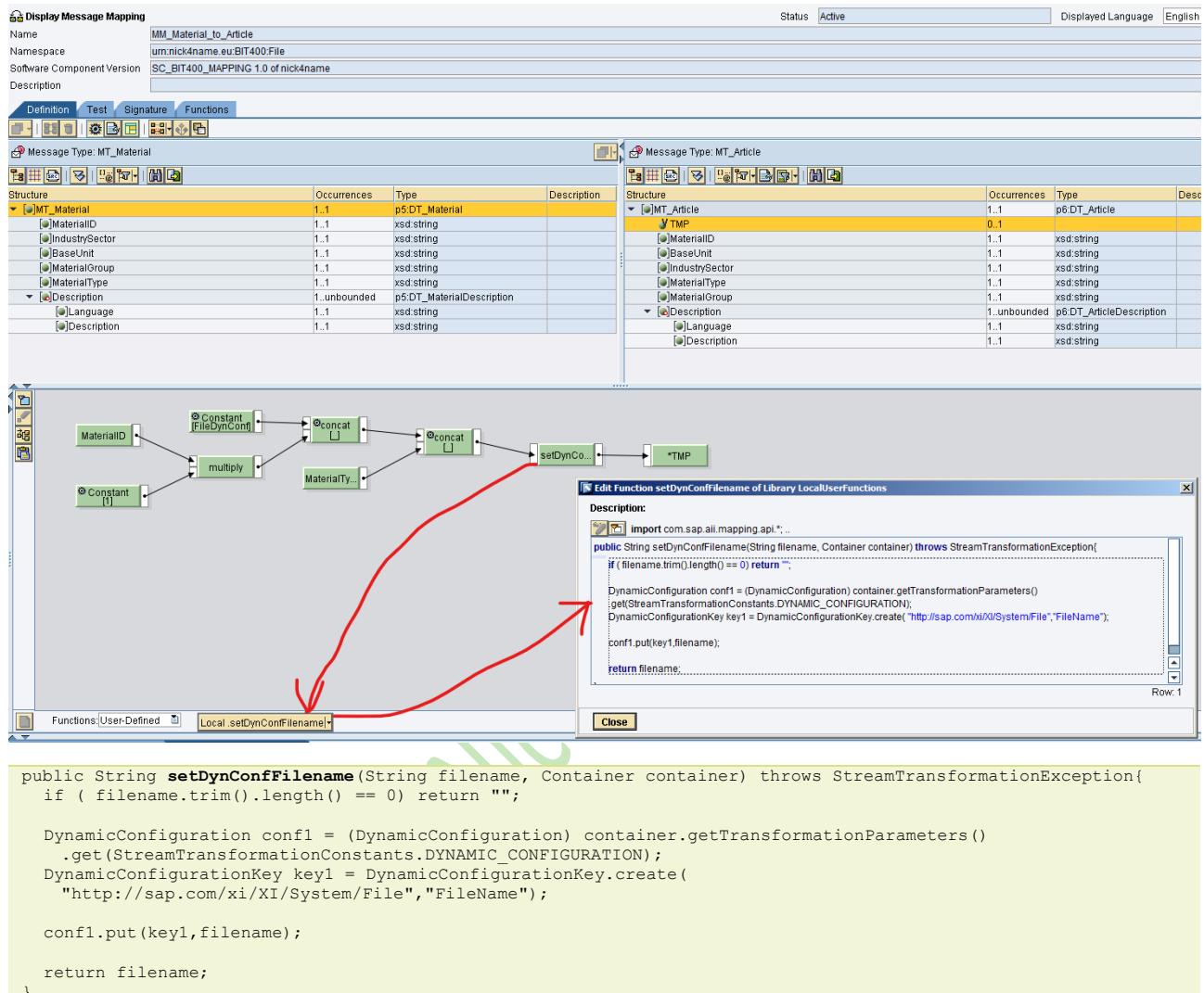


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Message Mapping

Costruzione del filename



Risultato del test



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

The screenshot displays the SAP PI 7.31 interface with three main windows:

- Display Message Mapping:** Shows the mapping between MT_Material (Source) and MT_Article (Target). The source structure includes MaterialID, IndustrySector, BaseUnit, MaterialGroup, MaterialType, Description, Language, and Description. The target structure includes MaterialID, BaseUnit, IndustrySector, MaterialGroup, MaterialType, Description, Language, and Description. A mapping diagram shows MaterialID being multiplied and concatenated with other fields to produce the target structure.
- Display Communication Channel:** Configured for CC_File_XML_00_SS_RCV. It specifies the communication channel, party, communication component, and various adapter settings like File System (NFS) and SAP BASIS 7.31.
- File Explorer:** Shows the file system structure at \\W4N-NW73\fs_corso_pi\Inbound. A folder named FileDynConf_123_BNL.20200228-0000-49-261 contains several XML and DAT files, with one file highlighted.

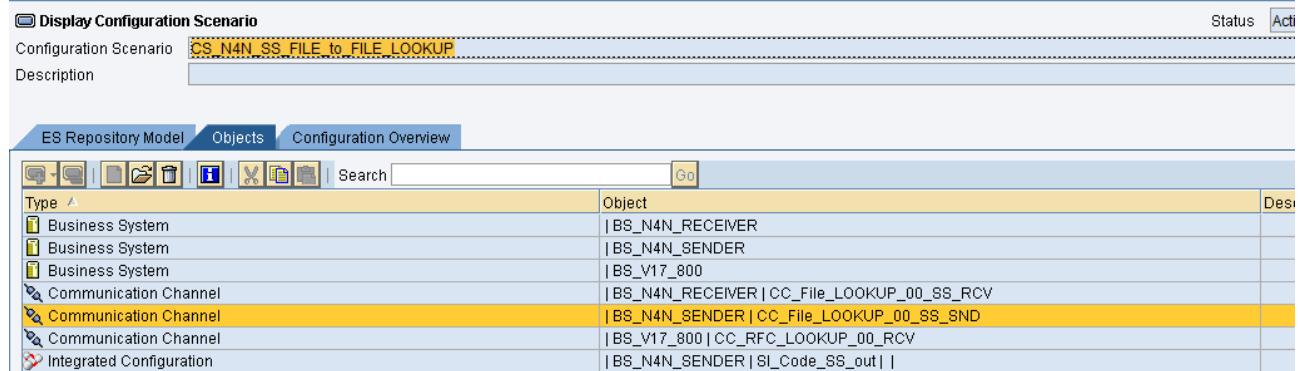
Il file prodotto, 1, si chiama **FileDynConf*** benché nel canale fosse impostato **FileArticle_SS_00_.xml**, 2, perché manipolato tramite mapping, 3.



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.

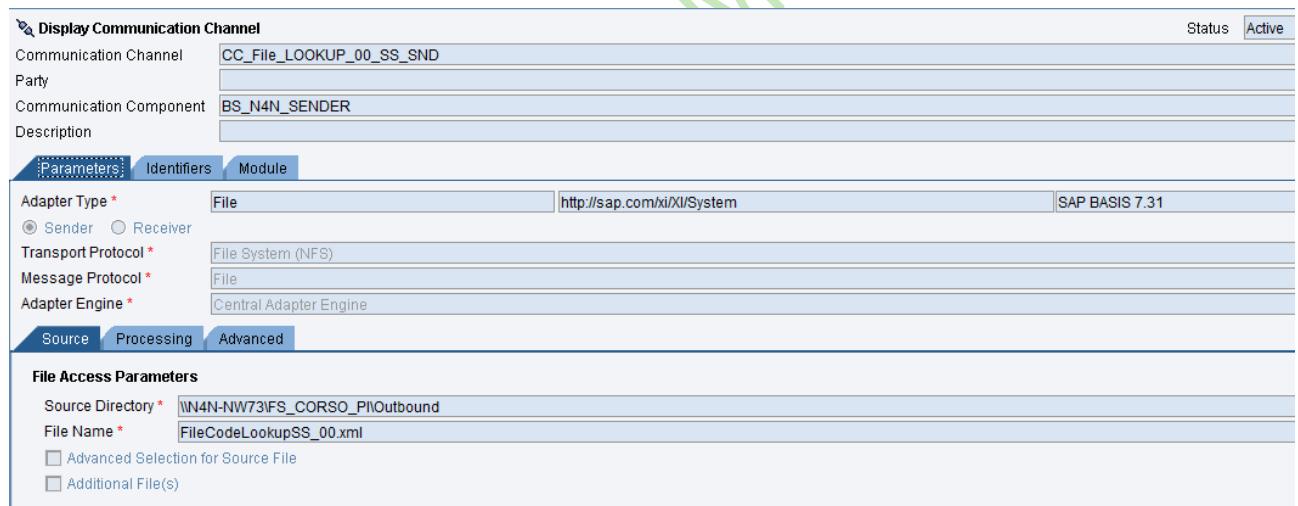
Configurazione lato Configuration



The screenshot shows the SAP ES Repository Model interface. At the top, there is a toolbar with icons for search, copy, paste, etc., followed by a search bar and a 'Go' button. Below the toolbar is a table with columns: Type, Object, and Description. The table contains several entries:

Type	Object	Description
Business System	BS_N4N_RECEIVER	
Business System	BS_N4N_SENDER	
Business System	BS_V17_800	
Communication Channel	BS_N4N_RECEIVER CC_File_LOOKUP_00_SS_RCV	
Communication Channel	BS_N4N_SENDER CC_File_LOOKUP_00_SS SND	
Communication Channel	BS_V17_800 CC_RFC_LOOKUP_00_RCV	
Integrated Configuration	BS_N4N_SENDER SI_Code_SS_out	

Channel sender file



The screenshot shows the SAP Communication Channel configuration screen. At the top, it says 'Display Communication Channel' and shows the channel name 'CC_File_LOOKUP_00_SS SND'. The status is 'Active'. Below this are fields for 'Party' (left empty) and 'Communication Component' (set to 'BS_N4N_SENDER'). There are tabs for 'Parameters', 'Identifiers', and 'Module'. Under 'Parameters', the 'Adapter Type' is set to 'File' (radio button selected), 'Transport Protocol' is 'File System (NFS)', 'Message Protocol' is 'File', and 'Adapter Engine' is 'Central Adapter Engine'. There are three tabs at the bottom: 'Source', 'Processing', and 'Advanced'. Under 'Source', the 'File Access Parameters' section includes 'Source Directory' (set to '\\N4N-NW73\FS_CORSO_PI\Outbound') and 'File Name' (set to 'FileCodeLookupSS_00.xml'). There are also checkboxes for 'Advanced Selection for Source File' and 'Additional File(s)'.

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



Source Processing Advanced

Adapter-Specific Message Attributes

- Set Adapter-Specific Message Attributes
- File Name ←
- Directory
- File Type
- Source File Size
- Source File Time Stamp

Adapter Status

Status	Active
--------	--------

Advanced Mode

Channel receiver file

Display Communication Channel

Communication Channel	CC_File_LOOKUP_00_SS_RCV	Status	Active
Party			
Communication Component	BS_N4N_RECEIVER		
Description			
Parameters	Identifiers	Module	
Adapter Type *	File	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	File System (NFS)		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		
Target	Processing	Advanced	

File Access Parameters

Target Directory *	\N4N-NW73\FS_CORSO_PI\Inbound
<input type="checkbox"/> Create Target Directory	
File Name Scheme *	<by_dynamic>.xml ←

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

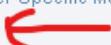


Target Processing Advanced

Variable Substitution (Target Directory/File Name Scheme)

Enable

Adapter-Specific Message Attributes

- Use Adapter-Specific Message Attributes 
- Fail If Adapter-Specific Message Attributes Missing
- File Name 
- Directory
- File Type

Adapter Status

Status

Advanced Mode

Channel RFC lookup receiver

Display Communication Channel

Communication Channel	CC_RFC_LOOKUP_00_RCV	Status	Active
Party			
Communication Component	BS_V17_800		
Description			
Parameters	Identifiers	Module	
Adapter Type *	RFC	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	RFC		
Message Protocol *	RFC (RFC XML)		
Adapter Engine *	Central Adapter Engine		
Target	Advanced		
RFC Client Parameter			
RFC Server Type	SAP System		
<input type="checkbox"/> Load Balancing			
Application Server *	butvm17		
System Number *	10		
Authentication Mode *	Use Logon Data for SAP System		
Logon User *	N4NRFCSERV		
Logon Password *	*****		
Logon Language *	en		
Logon Client *	800		
Maximum Connections	1		
<input type="checkbox"/> Advanced Mode			
RFC Metadata Repository Parameter			
<input type="checkbox"/> Use Alternative RFC Metadata Repository			



Integrated configuration

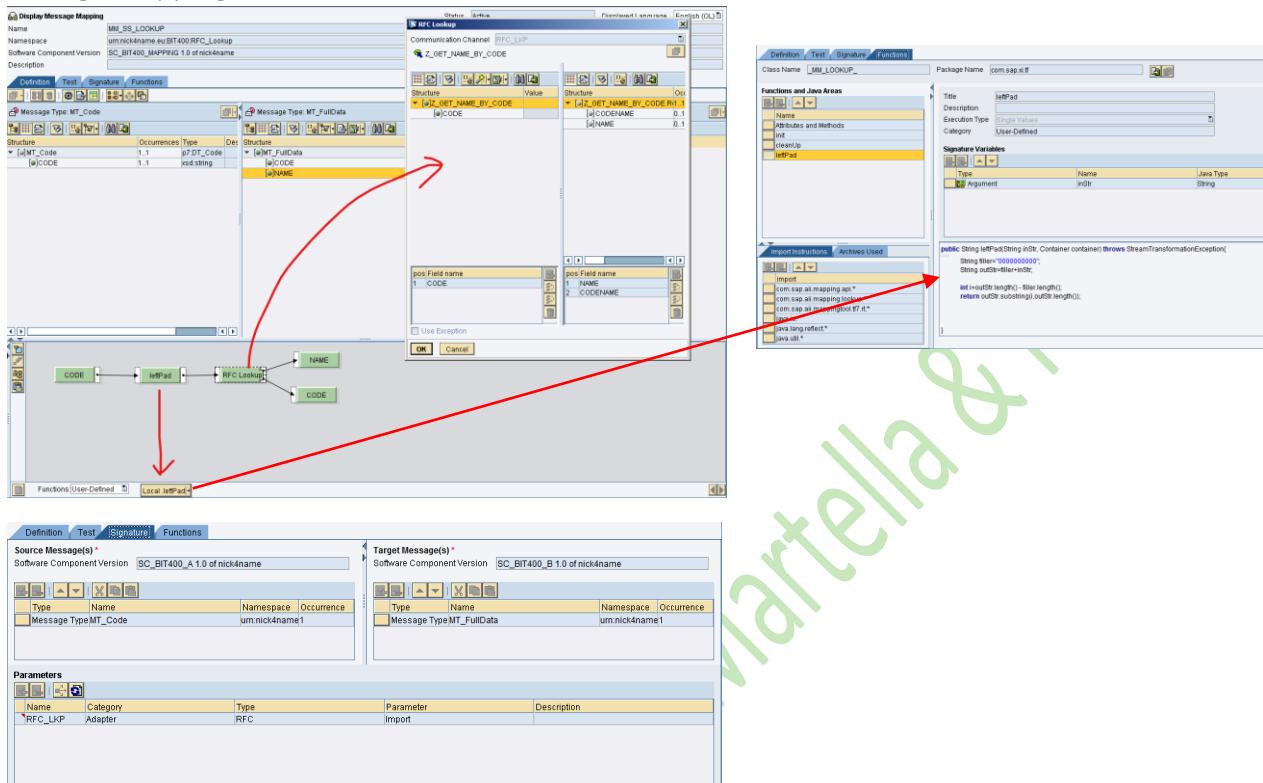
Display Integrated Configuration

Sender		Status Active																		
Communication Party	BS_N4N_SENDER																			
Communication Component	SI_Code_SS_out																			
Interface	SI_Code_SS_out																			
Namespace	urn:nick4name.eu:BIT400:RFC_Lookup																			
Receiver																				
Communication Party																				
Communication Component																				
Description																				
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings																				
Configuration for Interface SI_Code_SS_out <table border="1"> <tr> <td>Communication Channel *</td> <td colspan="2">CC_File_LOOKUP_00_SS_SND</td> </tr> <tr> <td>Adapter Type</td> <td>File</td> <td>http://sap.com/xi/XI/System</td> </tr> <tr> <td>Adapter Engine</td> <td colspan="2">Central Adapter Engine</td> </tr> <tr> <td>Software Component Version of Sender Interface</td> <td colspan="2">SC_BIT400_A 1.0 of nick4name</td> </tr> <tr> <td>Virus Scan</td> <td colspan="2">Use Global Configuration</td> </tr> <tr> <td>Schema Validation</td> <td colspan="2"> <input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter </td> </tr> </table>			Communication Channel *	CC_File_LOOKUP_00_SS_SND		Adapter Type	File	http://sap.com/xi/XI/System	Adapter Engine	Central Adapter Engine		Software Component Version of Sender Interface	SC_BIT400_A 1.0 of nick4name		Virus Scan	Use Global Configuration		Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter	
Communication Channel *	CC_File_LOOKUP_00_SS_SND																			
Adapter Type	File	http://sap.com/xi/XI/System																		
Adapter Engine	Central Adapter Engine																			
Software Component Version of Sender Interface	SC_BIT400_A 1.0 of nick4name																			
Virus Scan	Use Global Configuration																			
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter																			
Inbound Processing Receiver Receiver Interfaces Outbound Processing Assigned Users Advanced Settings																				
Receiver <table border="1"> <tr> <td>Type</td> <td>Communication Party</td> <td>Communication Component</td> </tr> <tr> <td colspan="3">BS_N4N_RECEIVER</td> </tr> </table>			Type	Communication Party	Communication Component	BS_N4N_RECEIVER														
Type	Communication Party	Communication Component																		
BS_N4N_RECEIVER																				
Receiver Interfaces <table border="1"> <tr> <td>Condition</td> <td>Operation Mapping</td> <td>Name *</td> <td>Namespace *</td> <td>Software Component Version</td> <td>Multiplicity</td> <td>Parameters</td> </tr> <tr> <td>OM_LOOKUP_SS</td> <td>SI_CodeFull_SS_inb</td> <td>urn:nick4name.eu:BIT400:RFC_Lookup</td> <td>SC_BIT400_B 1.0 of nick4name</td> <td>1</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> </table>			Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters	OM_LOOKUP_SS	SI_CodeFull_SS_inb	urn:nick4name.eu:BIT400:RFC_Lookup	SC_BIT400_B 1.0 of nick4name	1	<input checked="" type="checkbox"/>					
Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters														
OM_LOOKUP_SS	SI_CodeFull_SS_inb	urn:nick4name.eu:BIT400:RFC_Lookup	SC_BIT400_B 1.0 of nick4name	1	<input checked="" type="checkbox"/>															
Parameter of Operation Mapping: OM_LOOKUP_SS urn:nick4name.eu:BIT400:RFC_Lookup <table border="1"> <tr> <td>Name</td> <td>Value</td> </tr> <tr> <td>RFC_LKP</td> <td> BS_V17_800 CC_RFC_LOOKUP_00_RCV</td> </tr> </table>			Name	Value	RFC_LKP	BS_V17_800 CC_RFC_LOOKUP_00_RCV														
Name	Value																			
RFC_LKP	BS_V17_800 CC_RFC_LOOKUP_00_RCV																			

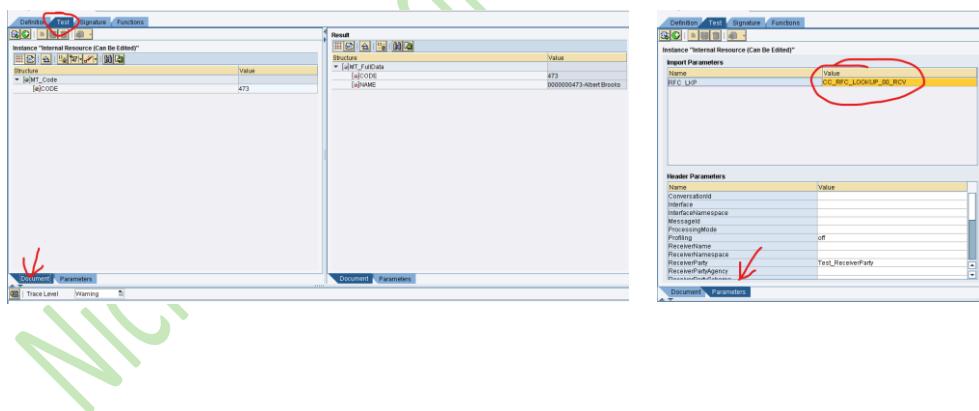


Configurazione lato Enterprise Service Builder

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
*"-->

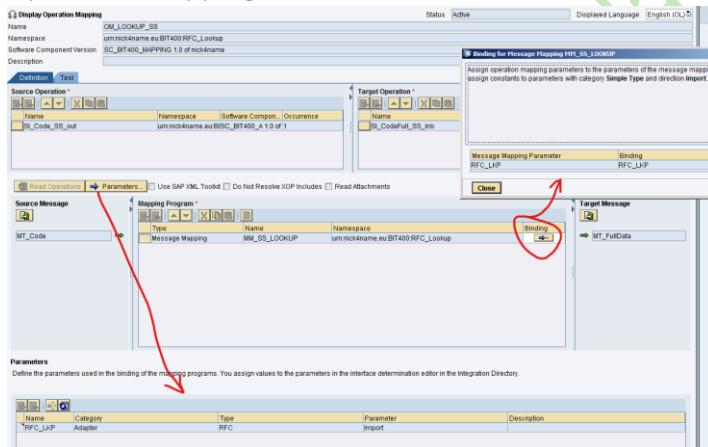
data: wa_name type name1.
data: wa_city type city.

select single name1 ort01 from knal 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

Configuration Scenario: FILE_to_PROXY_00 Status: In Process

Description:

ES Repository Model Objects Configuration Overview

Type	Object	Description
Business System	BS_COMPANY_A	
Business System	ID1	
Communication Channel	BS_COMPANY_A File_Sender_Proxy_00_A	
Communication Channel	ID1 SOAP_Receiver_Proxy	
Integrated Configuration	BS_COMPANY_A SI_Material_Proxy_out	

Channel file sender

Display Communication Channel Status: Active

Communication Channel: File_Sender_Proxy_00_A

Party:

Communication Component: BS_BIT400_00_A

Description:

Parameters Identifiers Module

Adapter Type *: File http://sap.com/xi/XI/System SAP BASIS 7.40
 Sender Receiver

Transport Protocol *: File System (NFS)

Message Protocol *: File

Adapter Engine *: Central Adapter Engine

Source Processing Advanced

File Access Parameters

Source Directory *: e:\training\USER_00\OUT

File Name *: FileProxy.xml

Advanced Selection for Source File

Additional File(s)

Cc file sender	File_Sender_Proxy_00_A
Filename	FileProxy.xml



Source Processing Advanced

Processing Parameters

Quality of Service *	Exactly Once
Poll Interval (secs) *	60
Poll Interval (msecs)	
Retry Interval (secs)	
Processing Mode *	Archive
<input checked="" type="checkbox"/> Add Time Stamp	
Archive Directory	e:\training\USER_00\OUT\ARCHIVE
Empty-File Handling	Do Not Create Message
<input type="checkbox"/> Archive Faulty Source Files	
<input type="checkbox"/> Process Read-Only Files	
Processing Sequence	By Name
File Type *	Binary

Channel proxy receiver

Display Communication Channel

Communication Channel	SOAP_Receiver_Proxy	Status	In Process
Party			
Communication Component	ID1		
Description			
Parameters	SOAP	http://sap.com/xi/XI/System	SAP BASIS 7.40
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	HTTP		
Message Protocol *	X 3.0		
Adapter Engine *	Central Adapter Engine		
General Advanced			
Security Parameters			
<input type="checkbox"/> Select Security Profile			
Connection Parameters			
Addressing Type *	URL Address		
Target URL *	http://192.168.0.98:8010/sap/xi/engine?type=entry		
Authentication Data			
Authentication Mode *	Use Logon Data for SAP System		
User Name	service		
User Password	*****	=	*****
Logon Language	EN		
Logon Client	800		
<input type="checkbox"/> Configure Certificate Authentication			
XI Packaging			
<input type="checkbox"/> Use Packaging			
Proxy Settings			
<input type="checkbox"/> Configure Proxy			
<input checked="" type="checkbox"/> Transfer Hop List			

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*



ICM monitor - Visualizzazione servizio

N. Registro	Nome servizio/porta	Elaboratore	KeepAlive	ProcTimeou	Att. Coll. est.	File ACL
1	HTTP	8010	sap.***.it	60	60	✓
2	SMTP	0	sap.***.it	120	120	✓

Interface determination

Condition	Operation Mapping	Name	Namespace	Software Component Version	Multiplicity
OM_FILE_to_PROXY_00	SI_Material_Proxy_in		urn:education.com:BIT400:ECC:PRO:SC_ECC:1.0:of:education.com	1	1

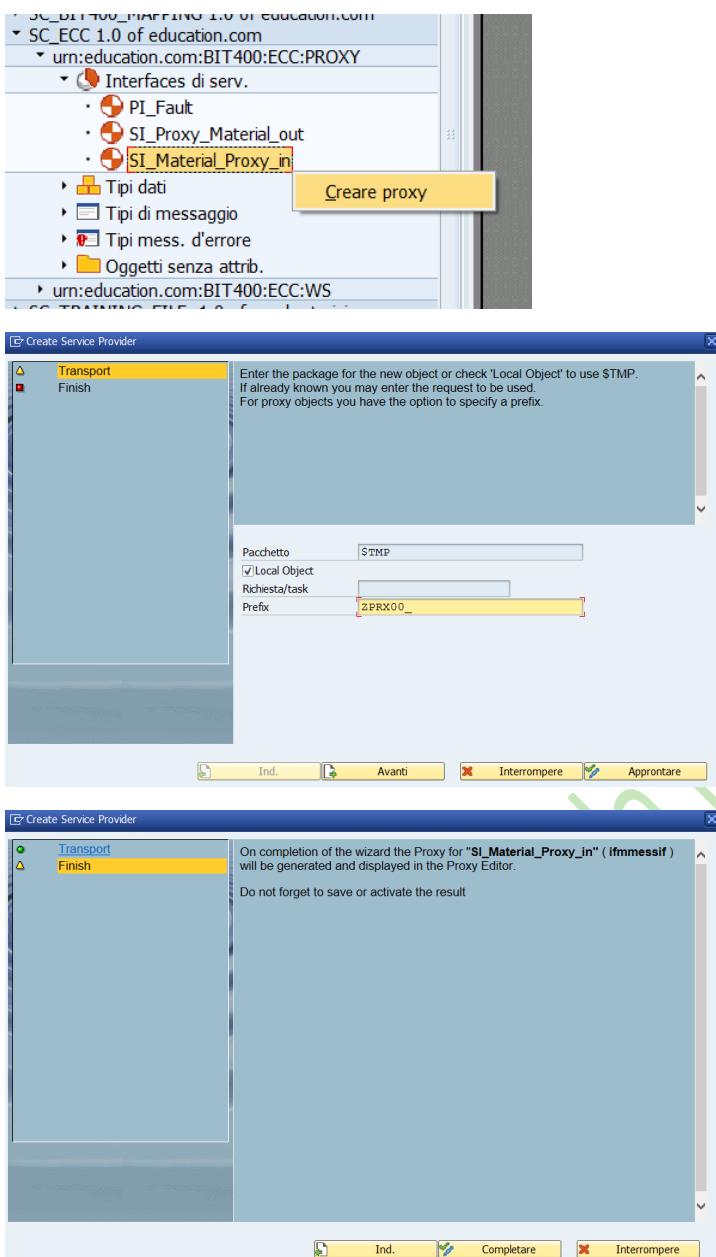
Lato ECC

[SPROXY] Sviluppo Proxy

Generazione classe ABAP Proxy

Object Navigator





Lancio wizard

Step 1

Definizione prefisso oggetti

Completare



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

The screenshot shows the SAP PI interface for creating a proxy class named 'SI_Material_Proxy_in'. The 'Properties' tab is selected, displaying details such as the type ('External Key'), namespace ('urn:education.com:BIT400:ECC:PROXY'), and direction ('I'). The 'Proxy' section shows the proxy name ('ZPRX00_II_SI_MATERIAL_PROXY_IN') and prefix ('ZPRX00_'). The 'Interface Attributes' section includes the provider class ('ZPRX00_CL_SI_MATERIAL_PROXY_I1'), description ('Proxy Class (generated)'), and web service definition ('ZSI_Material_Proxy_in'). General data like package ('ZTPI0') and original language ('EN Inglese') are also listed.

Classe proxy generata.

This screenshot shows the configuration of the provider class 'ZPRX00_CL_SI_MATERIAL_PROXY_I1'. It lists attributes like 'Description' ('Proxy Class (generated)') and 'WebService Definition' ('ZSI_Material_Proxy_in'). The 'Communication Type' dropdown is also visible.

Premere per attivare.

This screenshot shows the method implementation for 'ZPRX00_II_SI_MATERIAL_PROXY_I1'. The 'Metodo' table lists the method signature 'ZPRX00_II_SI_MATERIAL_PROXY_I1'. The code editor below contains the implementation logic, which includes concatenating input parameters and setting them to the payload.

Doppio click sulla provider class

This screenshot provides a closer look at the method implementation code. It shows the 'Param.' tab with an 'INPUT' parameter of type 'ZPRX00_MT_MATERIAL'. The code editor displays the implementation logic, with specific sections highlighted in red, indicating where to write the actual implementation code.

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

9 Numero di messaggi XML trovati

Messaggi XML														ID job				
Stat.	Det.	eseg. I	Ora	Ora	Sender	Sender...	Sr If Name	Receiver	Recr If Namespace	Receivr If Name	Pipline	Versione visualizzata	Tipo	QoS	Type	Adattato	Msg Queue	ID job
Integrati.	30.08.2016	17:32:07	16:09:35	16:09:35	GenBC		ID1	urn:gsharp.t:B2Btest	X12_850_4050VIC	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO008		
		15:53:19	15:53:24	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO006		
		15:55:50	15:55:50	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO003		
		15:57:00	16:09:35	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO008		
		15:59:08	15:59:09	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO005		
		15:59:40	15:59:40	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO000		
		16:01:40	16:09:35	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO008		
		16:09:26	16:09:26	BS_COMPANY_A			ID1	urn:education.com:BIT400:ECC:PROXY	SI_Material_Proxy_in	RECEIVER 'Stato attuale'	Asincrono	EO	AENGINE	PROXY		XBTRO002		

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The screenshot shows the SAP Studio interface with two main panes. The left pane displays the XML message structure:

- XML Message (Msg ID: 5B7DDFD56EBB11E6BBA8000000316F46)
- Inbound Message (RECEIVER)
 - SOAP Header
 - SOAP Body
 - Payloads
 - MainDocument (application/xml)
- Cal Inbound Proxy
- Response
 - SOAP Header
 - Man
 - ReliableMessaging
 - HopList
 - RunTime
 - PerformanceHeader
 - DynamicConfiguration
 - Diagnostic
 - Trace
 - SOAP Body
 - Manifest

Scenario PROXY_to_FILE_00

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

Configurazione lato Configuration

Display Configuration Scenario		Status	Active
Configuration Scenario PROXY to FILE_00			
Description			
ES Repository Model	Objects	Configuration Overview	
       	<input type="text" value="Search"/>	GO	
Type	Object	Description	
 Business System	BS_COMPANY_B		
 Business System	ID1		
 Communication Channel	BS_COMPANY_B File_Receiver_FromProxy_00		
 Communication Channel	ID1 SOAP_Sender_Proxy		
 Integrated Configuration	ID1 SI_Proxy_Material_out		

Channel proxy sender

Display Communication Channel		Status <input type="checkbox"/> Active	Display
Communication Channel	SOAP_Sender_Proxy		
Party			
Communication Component	ID1		
Description			
<input type="button" value="Parameters"/> <input type="button" value="Identifiers"/> <input type="button" value="Module"/>			
Adapter Type *	SOAP	http://sap.com/xi/XI/System	SAP BASIS 7.40
<input checked="" type="radio"/> Sender <input type="radio"/> Receiver			
Transport Protocol *	HTTP		
Message Protocol *	XI 3.0		
Adapter Engine *	Central Adapter Engine		
<input type="button" value="General"/> <input type="button" value="Advanced"/> <input type="button" value="Acknowledgement Handling"/>			
Security Parameters <input type="checkbox"/> Select Security Profile			



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General Advanced Acknowledgement Handling

Adapter-Specific Message Attributes

Set Adapter-Specific Message Attributes

General Advanced Acknowledgement Handling

Acknowledgment Handling

HTTP Destination (from NWA)

Channel file receiver

Display Communication Channel

Communication Channel	File_Receiver_FromProxy_00	Status	Active
Party			
Communication Component	BS_COMPANY_B		
Description			
Parameters	Identifiers	Module	
Adapter Type *	File	http://sap.com/xi/XI/System	SAP BASIS 7.40
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	File Transfer Protocol (FTP)		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		
Target	Processing	Advanced	
File Access Parameters			
Target Directory *	/TRAINING_PIIN		
<input type="checkbox"/> Create Target Directory			
File Name Scheme *	FileFromProxy.xml		
FTP Connection Parameters			
Server *	ftp.greensharp.it		
Port *	21		
Data Connection	Passive		
Timeout (secs)			
Connection Security *	None		
<input type="checkbox"/> Use FTP Proxy			
<input type="checkbox"/> Anonymous Login			
User Name	testpo		
Password	*****	=	*****
Connect Mode *	Per File Transfer		
Transfer Mode *	Binary		



Interface determination

The screenshot shows the 'Display Integrated Configuration' screen for an interface. It includes sections for Sender (Communication Party: ID1, Interface: SI_Proxy_Material_out, Namespace: urn:education.com:BIT400:ECC:PROXY) and Receiver (Communication Party: BS_COMPANY_B, Type: Communication Component). Below these, the 'Receiver Interfaces' tab is selected, showing a table with one entry: Condition: OM_PROXY_to_FILE_00, Operation Mapping: SI_Proxy_Material_In, Name: SI_Proxy_Material_In, Namespace: urn:education.com:BIT400:A, Software Component Version: SC_BIT400_A 1.0 of education.com, Multiplicity: 1, and Parameters: none.

Configurazione lato Repository

Operation Mapping

The screenshot shows the 'Display Operation Mapping' screen for an operation mapping named OM_PROXY_to_FILE_00. It displays Source Operation (SI_Proxy_Material_out) and Target Operation (SI_Proxy_Material_in). The Mapping Program section shows a mapping from Source Message (MT_Material) to Target Message (MT_Material) using a Message Mapping type. The mapping is named MM_PROXY_to_FILE_00 and has a namespace of urn:education.com:BIT400:PROXY.

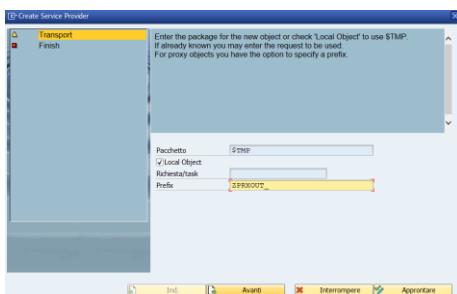
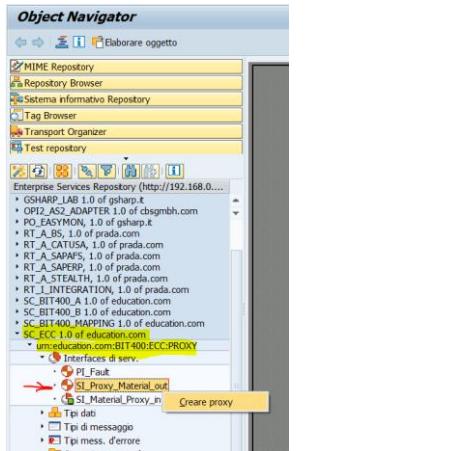
Message Mapping

The screenshot shows the 'Display Message Mapping' screen for a message mapping named MM_PROXY_to_FILE_00. It compares two message types: MT_Material (Source) and MT_Material (Target). The structures are identical, both containing fields for MaterialID, IndustrySector, BaseUnit, MaterialGroup, MaterialType, Language, and Description. A mapping diagram at the bottom shows a 'Constant' node connected to a 'Description' node.

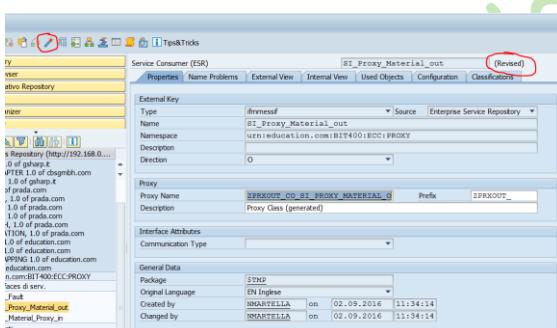


Configurazione lato ECC

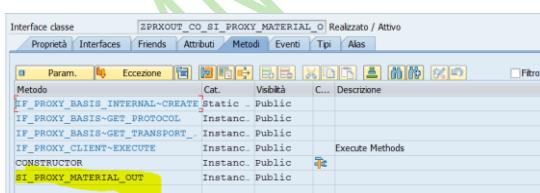
[SPROXY] Creazione classe proxy ABAP



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



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<https://www.nick4name.eu>

Cat. Parametro	Tipizzaz.	Descrizione
OUTPUT	TYPE ZPRX00_MT_MATERIAL	Communication Error
CX_AI_SYSTEM_FAULT		
Metodo	SI_PROXY_MATERIAL_OUT	att.
<pre> 1 method SI_PROXY_MATERIAL_OUT. 2 3 data: 4 ls_parmbind type abap_parmbind, 5 lt_parmbind type abap_parmbind_tab. 6 7 ls_parmbind-name = 'OUTPUT'. 8 ls_parmbind-kind = cl_abap_objectdescr->importing. 9 get reference of OUTPUT into ls_parmbind-value. 10 insert ls_parmbind into table lt_parmbind. 11 12 if_proxy_client-execute(13 exporting 14 method_name = 'SI_PROXY_MATERIAL_OUT' 15 changing 16 parmbind_tab = lt_parmbind 17). 18 19 endmethod. </pre>		

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!'.

```



Scenario CS_N4N_SS_WS_to_RFC

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

Configurazione lato Configuration

The screenshot shows the SAP PI Configuration Overview interface. At the top, there are tabs for 'ES Repository Model', 'Objects', and 'Configuration Overview'. Below the tabs is a toolbar with icons for creating and deleting objects, and a search bar. A table lists various objects under 'Type' and 'Object' columns:

Type	Object
Business System	BS_V17_800
Business Component	BC_N4N_CONSUMER
Communication Channel	BC_N4N_CONSUMER CC_WS_RFC_00_SND
Communication Channel	BS_V17_800 CC_RFC_LOOKUP_00_RCV
Integrated Configuration	BC_N4N_CONSUMER SI_Person_WS_SS_out

Channel sender WS

The screenshot shows the 'Display Communication Channel' configuration screen. It includes fields for 'Communication Channel' (CC_WS_RFC_00_SND), 'Party' (BC_N4N_CONSUMER), and 'Description'. Below these are tabs for 'Parameters', 'Identifiers', and 'Module'. Under 'Parameters', settings include 'Adapter Type' (SOAP), 'Transport Protocol' (HTTP), 'Message Protocol' (SOAP1.1), and 'Adapter Engine' (Central Adapter Engine). Other sections like 'Inbound Security Checks' and 'Processing Parameters' are also visible.

CC Sender CC_WS_RFC_00_SND



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Channel RFC receiver

Display Communication Channel

Communication Channel	CC_RFC_LOOKUP_00_RCV	Status	Active																						
Party	BS_V17_800																								
Description																									
<input type="radio"/> Parameters <input type="radio"/> Identifiers <input type="radio"/> Module																									
Adapter Type *	RFC	http://sap.com/xi/XI/System	SAP BASIS 7.31																						
Transport Protocol *	RFC																								
Message Protocol *	RFC (RFC XML)																								
Adapter Engine *	Central Adapter Engine																								
<input type="radio"/> Target <input type="radio"/> Advanced																									
RFC Client Parameter <table border="1"> <tr> <td>RFC Server Type</td> <td>SAP System</td> </tr> <tr> <td><input type="checkbox"/> Load Balancing</td> <td></td> </tr> <tr> <td>Application Server *</td> <td>butvm17</td> </tr> <tr> <td>System Number *</td> <td>10</td> </tr> <tr> <td>Authentication Mode *</td> <td>Use Logon Data for SAP System</td> </tr> <tr> <td>Logon User *</td> <td>N4NRFCSERV</td> </tr> <tr> <td>Logon Password *</td> <td>*****</td> </tr> <tr> <td>Logon Language *</td> <td>en</td> </tr> <tr> <td>Logon Client *</td> <td>800</td> </tr> <tr> <td>Maximum Connections</td> <td>1</td> </tr> <tr> <td><input type="checkbox"/> Advanced Mode</td> <td></td> </tr> </table>				RFC Server Type	SAP System	<input type="checkbox"/> Load Balancing		Application Server *	butvm17	System Number *	10	Authentication Mode *	Use Logon Data for SAP System	Logon User *	N4NRFCSERV	Logon Password *	*****	Logon Language *	en	Logon Client *	800	Maximum Connections	1	<input type="checkbox"/> Advanced Mode	
RFC Server Type	SAP System																								
<input type="checkbox"/> Load Balancing																									
Application Server *	butvm17																								
System Number *	10																								
Authentication Mode *	Use Logon Data for SAP System																								
Logon User *	N4NRFCSERV																								
Logon Password *	*****																								
Logon Language *	en																								
Logon Client *	800																								
Maximum Connections	1																								
<input type="checkbox"/> Advanced Mode																									
RFC Metadata Repository Parameter <table border="1"> <tr> <td><input type="checkbox"/> Use Alternative RFC Metadata Repository</td> </tr> </table>				<input type="checkbox"/> Use Alternative RFC Metadata Repository																					
<input type="checkbox"/> Use Alternative RFC Metadata Repository																									

CC Receiver CC_RFC_LOOKUP_00_RCV

Integrated Configuration

Display Integrated Configuration

Sender	Status	Active																		
Communication Party	BC_N4N_CONSUMER																			
Communication Component	SI_Person_WS_SS_out																			
Interface	urn:nick4name.eu:BIT400:B:WS																			
Receiver																				
Communication Party																				
Communication Component																				
Description																				
<input type="radio"/> Inbound Processing <input type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																				
Configuration for Interface SI_Person_WS_SS_out <table border="1"> <tr> <td>Communication Channel *</td> <td>CC_WS_RFC_00_SND</td> <td></td> </tr> <tr> <td>Adapter Type</td> <td>SOAP</td> <td>http://sap.com/xi/XI/System</td> </tr> <tr> <td>Adapter Engine</td> <td>Central Adapter Engine</td> <td>SAP BASIS 7.31</td> </tr> <tr> <td>Software Component Version of Sender Interface</td> <td>SC_BIT400_B 1.0 of nick4name</td> <td></td> </tr> <tr> <td>Virus Scan</td> <td>Use Global Configuration</td> <td></td> </tr> <tr> <td>Schema Validation</td> <td><input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter</td> <td></td> </tr> </table>			Communication Channel *	CC_WS_RFC_00_SND		Adapter Type	SOAP	http://sap.com/xi/XI/System	Adapter Engine	Central Adapter Engine	SAP BASIS 7.31	Software Component Version of Sender Interface	SC_BIT400_B 1.0 of nick4name		Virus Scan	Use Global Configuration		Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter	
Communication Channel *	CC_WS_RFC_00_SND																			
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Software Component Version of Sender Interface	SC_BIT400_B 1.0 of nick4name																			
Virus Scan	Use Global Configuration																			
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter																			
Principal Propagation Properties <table border="1"> <tr> <td><input type="checkbox"/> Propagate Principal</td> </tr> <tr> <td><input type="checkbox"/> Metering of Service Calls</td> </tr> </table>			<input type="checkbox"/> Propagate Principal	<input type="checkbox"/> Metering of Service Calls																
<input type="checkbox"/> Propagate Principal																				
<input type="checkbox"/> Metering of Service Calls																				

<input type="radio"/> Inbound Processing <input checked="" type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings										
Type of Receiver Determination	<input checked="" type="radio"/> Standard	<input type="radio"/> Extended								
Configured Receivers <table border="1"> <tr> <td><input type="checkbox"/> Search</td> <td><input type="radio"/></td> </tr> <tr> <td>Condition</td> <td>Communication Party</td> <td>Communication Component *</td> </tr> <tr> <td></td> <td></td> <td>BS_V17_800</td> </tr> </table>			<input type="checkbox"/> Search	<input type="radio"/>	Condition	Communication Party	Communication Component *			BS_V17_800
<input type="checkbox"/> Search	<input type="radio"/>									
Condition	Communication Party	Communication Component *								
		BS_V17_800								

<input type="radio"/> Inbound Processing <input type="radio"/> Receiver <input checked="" type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings																	
Receiver <table border="1"> <tr> <td>Type</td> <td>Communication Party</td> <td>Communication Component</td> </tr> <tr> <td>Communication Component</td> <td colspan="2">BS_V17_800</td> </tr> </table>			Type	Communication Party	Communication Component	Communication Component	BS_V17_800										
Type	Communication Party	Communication Component															
Communication Component	BS_V17_800																
Receiver Interfaces * <table border="1"> <tr> <td><input type="checkbox"/> Maintain Order at Runtime</td> </tr> <tr> <td>Condition</td> <td>Operation Mapping</td> <td>Name *</td> <td>Namespace *</td> <td>Software Component Version</td> <td>Multiplicity</td> <td>Parameters</td> </tr> <tr> <td></td> <td>OM_WS_to_RFC_SS</td> <td>Z_GET_NAME_COMPLETE</td> <td>urn:sap-com:document:sap:rfcfunctions</td> <td>SAP APPL 6.18</td> <td>1</td> <td><input type="checkbox"/></td> </tr> </table>			<input type="checkbox"/> Maintain Order at Runtime	Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters		OM_WS_to_RFC_SS	Z_GET_NAME_COMPLETE	urn:sap-com:document:sap:rfcfunctions	SAP APPL 6.18	1	<input type="checkbox"/>
<input type="checkbox"/> Maintain Order at Runtime																	
Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters											
	OM_WS_to_RFC_SS	Z_GET_NAME_COMPLETE	urn:sap-com:document:sap:rfcfunctions	SAP APPL 6.18	1	<input type="checkbox"/>											



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

The screenshot shows the SAP PI 7.31 configuration interface for the Outbound Processing tab of the interface Z_GET_NAME_COMPLETE. Key settings include:

- Communication Channel:** CC_RFC_LOOKUP_00_RCV
- Adapter Type:** RFC
- Central Adapter Engine:** SAP APPL 6.18
- Software Component Version of Receiver Interface:** SAP APPL 6.18
- Virus Scan:** Use Global Configuration
- Schema Validation:** No Validation (selected)
- Header Mapping:** Options for Sender and Receiver Communication Parties.
- Principal Propagation Properties:** Propagate Principal (unchecked).

Per ottenere il WSDL dello scenario

The screenshot shows the SAP PI configuration interface with the 'Display WSDL...' option highlighted in the context menu. To the right, the 'Display WSDL' dialog box is open, showing the generated WSDL XML code. A red arrow points to the 'Save' button at the bottom of the dialog.

Configurazione lato Enterprise Service Builder
Operation Mapping
Request

The screenshot shows the SAP ESB Operation Mapping interface for the Request side of the OM_WS_to_RFC_SS operation. It includes:

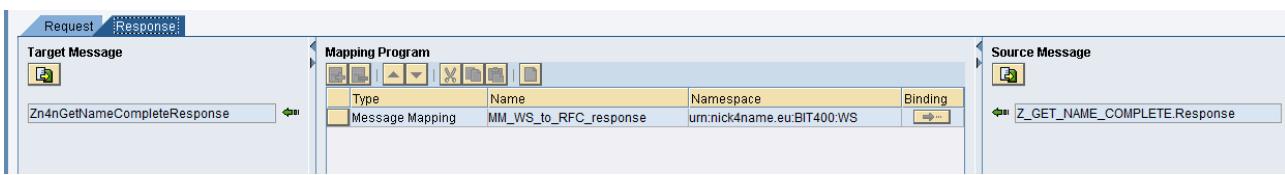
- Source Operation:** SL_Person_WS_SS_out (Namespace: urn:nick4name.eu:BIT400:B:WS, Software Component Version: SC_BIT400_MAPPING 1.0 of nick4name)
- Target Operation:** Z_GET_NAME_COMPLETE (Namespace: urn:sap-com:document:sap:rfc:function:SAP_APPL 6.18)
- Mapping Program:** MM_WS_to_RFC (Type: Message Mapping, Namespace: urn:nick4name.eu:BIT400:W)
- Target Message:** Z_GET_NAME_COMPLETE

Response

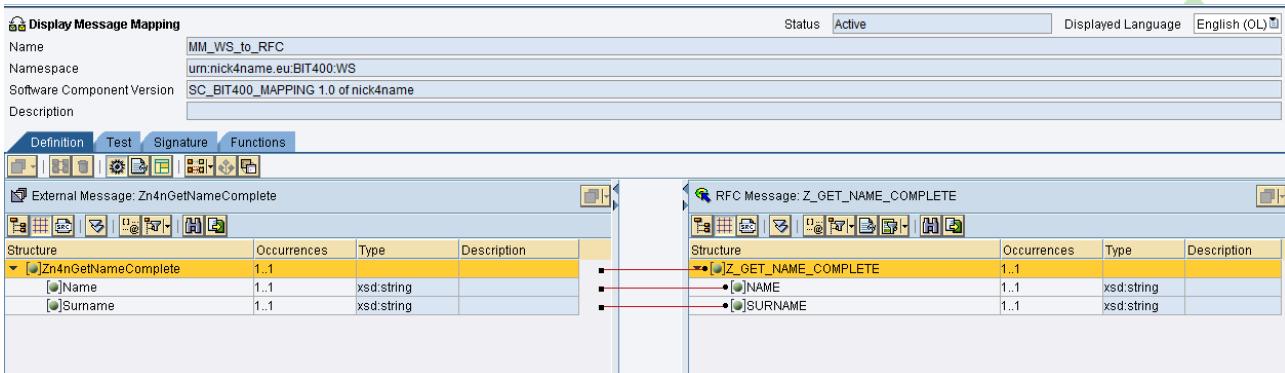


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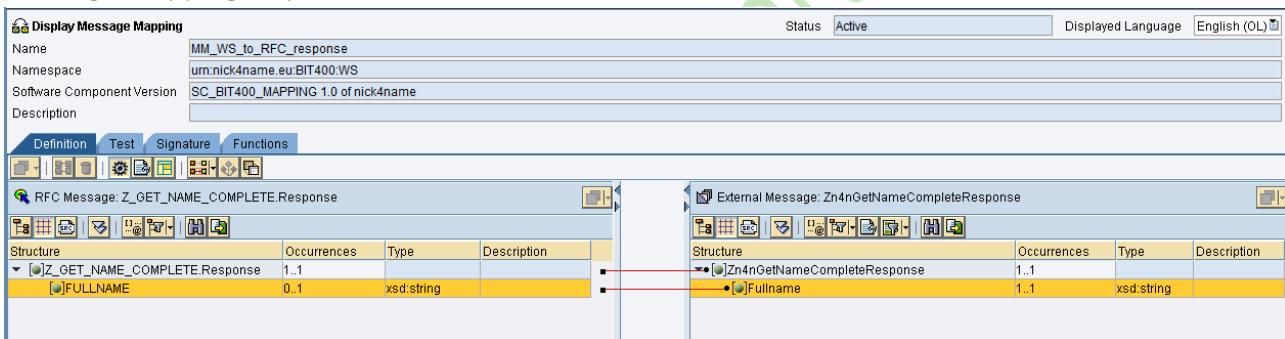
<https://www.nick4name.eu>



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

The screenshot shows the SoapUI interface with two panes. The left pane displays the 'Request 1' message in XML format, which is a SOAP envelope with a body containing a 'urn:Zn4nGetNameComplete' operation. The right pane shows the 'Response' message, which is a SOAP envelope containing a 'ns1:Zn4nGetNameCompleteResponse' with the 'Fullname' element set to 'Nicola Martella'. Below the panes, there is an 'Authorization' section for basic authentication with fields for Username ('N4NWSUSER'), Password ('*****'), and Domain (''). At the bottom, there are tabs for Auth (Basic), Headers (0), Attachments (0), WS-A, WS-RM, JMS Headers, and JMS Property (0). The status bar at the bottom indicates a response time of 60ms (287 bytes).

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

dove

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

Display Configuration Scenario

Configuration Scenario: CS_N4N_SS_HTTP_to_RFC_00

Description:

ES Repository Model Objects Configuration Overview

Type	Object
Business System	BS_V17_800
Business Component	BC_N4N_CONSUMER
Communication Channel	BC_N4N_CONSUMER CC_HTTP_SS_SND
Communication Channel	BS_V17_800 CC_RFC_LOOKUP_00_RCV
Integrated Configuration	BC_N4N_CONSUMER SI_Person_HTTP_SS_out

Channel sender HTTP

Display Communication Channel

Communication Channel: CC_HTTP_SS_SND

Status: Active

Party:

Communication Component: BC_N4N_CONSUMER

Description:

Parameters Identifiers Module

Adapter Type *: HTTP_AAE http://sap.com/xi/UI/System SAP BASIS 7.31

Sender Receiver

Transport Protocol *: HTTP 1.1

Message Protocol *: POST

Adapter Engine *: Central Adapter Engine

General Advanced

Request Details

Set Form
 Set Multipart

Cc sender

CC_HTTP_SS_SND

Channel receiver RFC

Display Communication Channel

Communication Channel: CC_RFC_LOOKUP_00_RCV

Status: Active

Party:

Communication Component: BS_V17_800

Description:

Parameters Identifiers Module

Adapter Type *: RFC http://sap.com/xi/UI/System SAP BASIS 7.31

Sender Receiver

Transport Protocol *: RFC

Message Protocol *: RFC (RFC XML)

Adapter Engine *: Central Adapter Engine

Target Advanced

RFC Client Parameter

RFC Server Type: SAP System

Load Balancing

Application Server *: butvm17

System Number *: 10

Authentication Mode *: Use Logon Data for SAP System

Logon User *: N4NRFCSERV

Logon Password *: ****

Logon Language *: en

Logon Client *: 800

Maximum Connections: 1

Advanced Mode

RFC Metadata Repository Parameter

Use Alternative RFC Metadata Repository

Cc receiver

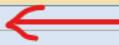
CC_RFC_LOOKUP_00_RCV



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<https://www.nick4name.eu>

Communication Component

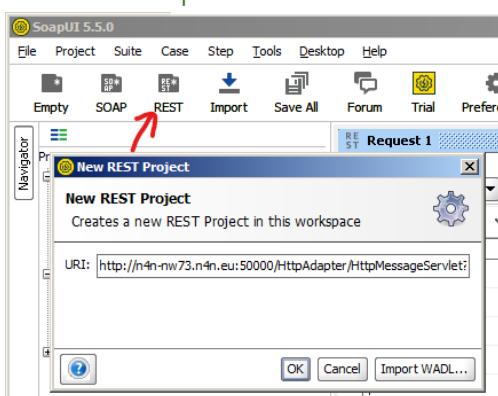
<input checked="" type="radio"/> Display Communication Component	Status: Active	Displayed Lang:												
Communication Component: BC_N4N_CONSUMER														
Party:														
Description:														
Business Component														
<input type="radio"/> Receiver <input checked="" type="radio"/> Sender <input type="radio"/> Assigned Users <input type="radio"/> Other Attributes														
Outbound Interfaces														
<table border="1"> <thead> <tr> <th>Name *</th> <th>Namespace *</th> <th>Software Component Version</th> </tr> </thead> <tbody> <tr> <td>SI_Person_HTTP_SS_out</td> <td>urn:nick4name.eu:BIT400:B:WS</td> <td>SC_BIT400_B 1.0 of nick4name</td> </tr> <tr> <td>SI_Person_WS_DS_out</td> <td>urn:nick4name.eu:BIT400:B:WS</td> <td>SC_BIT400_B 1.0 of nick4name</td> </tr> <tr> <td>SI_Person_WS_SS_out</td> <td>urn:nick4name.eu:BIT400:B:WS</td> <td>SC_BIT400_B 1.0 of nick4name</td> </tr> </tbody> </table>			Name *	Namespace *	Software Component Version	SI_Person_HTTP_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name	SI_Person_WS_DS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name	SI_Person_WS_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name
Name *	Namespace *	Software Component Version												
SI_Person_HTTP_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name												
SI_Person_WS_DS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name												
SI_Person_WS_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name												
														
Communication Channels														
<table border="1"> <thead> <tr> <th>Name</th> </tr> </thead> <tbody> <tr> <td>CC_HTTP_SS_SND</td> </tr> <tr> <td>CC_WS_RFC_00_SND</td> </tr> </tbody> </table>			Name	CC_HTTP_SS_SND	CC_WS_RFC_00_SND									
Name														
CC_HTTP_SS_SND														
CC_WS_RFC_00_SND														

Integrated Configuration

<input checked="" type="radio"/> Display Integrated Configuration	Status: Active					
Sender						
Communication Party:						
Communication Component:	BC_N4N_CONSUMER					
Interface:	SI_Person_HTTP_SS_out					
Namespace:	urn:nick4name.eu:BIT400:B:WS					
Receiver						
Communication Party:						
Communication Component:						
Description:						
<input type="radio"/> Inbound Processing <input checked="" type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings						
Configuration for Interface SI_Person_HTTP_SS_out						
Communication Channel *	CC_HTTP_SS_SND					
Adapter Type:	HTTP_AAE	http://sap.com/xi/XI/System				
Adapter Engine:	Central Adapter Engine	SAP BASIS 7.31				
Software Component Version of Sender Interface:	SC_BIT400_B 1.0 of nick4name					
Virus Scan:	Use Global Configuration					
Schema Validation:	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter					
<input type="radio"/> Inbound Processing <input checked="" type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings						
Type of Receiver Determination						
<input checked="" type="radio"/> Standard <input type="radio"/> Extended						
Configured Receivers						
<input type="radio"/> Search <input type="radio"/> Go						
Condition:	Communication Party:	Communication Component *				
		BS_V17_800				
<input type="radio"/> Inbound Processing <input checked="" type="radio"/> Receiver <input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings						
Receiver						
Type:	Communication Party:	Communication Component				
Communication Component:		BS_V17_800				
<input type="radio"/> Receiver Interfaces <input type="radio"/> Outbound Processing <input type="radio"/> Assigned Users <input type="radio"/> Advanced Settings						
Receiver Interfaces						
<input type="checkbox"/> Maintain Order at Runtime						
Condition:	Operation Mapping:	Name *	Namespace *	Software Component Version	Multiplicity	Parameters
OM_HTTP_to_RFC_SS	Z_GET_NAME_COMPLETE	urn:sap-com:document:sap:rfc:function:SAP_APPL_6.18	1			



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



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

The screenshot shows the soapUI interface with a request configuration for a POST method. The endpoint is <http://n4n-nw73.n4n.eu:50000>. The request details pane shows parameters such as Interface Namespace (urn:nick4name.eu:BIT400:B:WS), Interface (SI_Person_HTTP_SS_out), Sender Service (BC_N4N_CONSUMER), and Sender Party (BC_N4N_CONSUMER). The QoS is set to BE. The payload is an XML message:

```

<ns1:In4nGetNameCompleteResponse xmlns:ns1="urn:sap-com:document:sap:soap:functions:mc-style">
  <Fullname>nicola-martella</Fullname>
</ns1:In4nGetNameCompleteResponse>

```

The response pane shows the XML response:

```

<ns1:In4nGetNameCompleteResponse xmlns:ns1="urn:sap-com:document:sap:soap:functions:mc-style">
  <Fullname>nicola-martella</Fullname>
</ns1:In4nGetNameCompleteResponse>

```

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)



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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

The screenshot shows the SAP PI Configuration interface. At the top, there is a header with tabs for 'Display Configuration Scenario', 'Status', and 'Configuration Scenario' set to 'CS_N4N_SS_WEBSERVICE_EXT_00'. Below this, there is a 'Description' field which is empty. Underneath, there are three tabs: 'ES Repository Model', 'Objects', and 'Configuration Overview', with 'Objects' being the active tab. The main area displays a table of objects with columns for 'Type' and 'Object'. The objects listed are:

Type	Object
Business Component	BC_N4N_CONSUMER
Business Component	BC_RECEIVER
Communication Channel	BC_N4N_CONSUMER CC_HTTP_GET_SS_SND
Communication Channel	BC_N4N_CONSUMER CC_HTTP_POST_SS_SND
Communication Channel	BC_RECEIVER CC_SOAP_GetCitiesByCountry_SS_RCV
Integrated Configuration	BC_N4N_CONSUMER SI_City_SS_out

Modalità HTTP GET

Channel HTTP sender

The screenshot shows the SAP PI Configuration interface for a communication channel. At the top, there is a header with tabs for 'Display Communication Channel', 'Status' (set to 'Active'), and 'Communication Channel' set to 'CC_HTTP_GET_SS_SND'. Below this, there are fields for 'Party' and 'Communication Component' both set to 'BC_N4N_CONSUMER'. Underneath, there are three tabs: 'Parameters', 'Identifiers', and 'Module', with 'Parameters' being the active tab. The parameters section includes fields for 'Adapter Type' (set to 'HTTP_AAE'), 'Transport Protocol' (set to 'HTTP 1.1'), and 'Message Protocol' (set to 'GET'). A red arrow points to the 'GET' value. There is also a field for 'Adapter Engine' set to 'Central Adapter Engine'. At the bottom, there are two tabs: 'General' and 'Advanced', with 'General' being the active tab. The 'Request Details' section contains a field for 'Main Payload Parameter Name' with the value 'THENAMEYOUWANT'.



General Advanced

Adapter-Specific Message Properties

- Set Adapter-Specific Message Properties
- HTTP Header Fields
- URL Parameters 

Parameter 1 (URLParamOne)	NAME
Parameter 2 (URLParamTwo)	
Parameter 3 (URLParamThree)	
Parameter 4 (URLParamFour)	
Parameter 5 (URLParamFive)	
Parameter 6 (URLParamSix)	
<input type="checkbox"/> HTTP Header Fields (Synchronous Response)	

Adapter Status

Status *

Additional Parameters

Set Additional Parameters

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

Display Communication Channel

Communication Channel	CC_SOAP_GetCitiesByCountry_SS_RCV	Status	Active
Party			
Communication Component	BC_RECEIVER		
Description			

Parameters Identifiers Module

Adapter Type *	SOAP	http://sap.com/xi/XI/System	SAP BASIS 7.31
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	HTTP		
Message Protocol *	SOAP 1.1		
Adapter Engine *	Central Adapter Engine		

General Advanced

Connection Parameters

Target URL *

Configure User Authentication
 Configure Certificate Authentication
 Configure Proxy

Security Parameters

Select Security Profile

Conversion Parameters

Do Not Use SOAP Envelope
 Keep Headers
 Keep Attachments
 Use Encoded Headers
 Use Query String

SOAP Action

Cc name CC_SOAP_GetCitiesByCountry_SS_RCV

Target URL

SOAP Action



Communication Component

Aggiungere Service Interface sender

Display Communication Component

Communication Component	BC_N4N_CONSUMER	Status	Active
Party			
Description			

Business Component

- Receiver
- Sender
- Assigned Users
- Other Attributes

Outbound Interfaces

Name *	Namespace *	Software Component Version
SI_City_SS_out	urn:nick4name.eu:BIT400:A:WS	SC_BIT400_A 1.0 of nick4name
SI_Person_HTTP_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name
SI_Person_WS_DS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name
SI_Person_WS_SS_out	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name

Communication Channels

Name
CC_HTTP_GET_SS_SND
CC_HTTP_POST_SS_SND
CC_WS_RFC_00_SND

Integrated Configuration

Display Integrated Configuration

Sender	Status	Active
Communication Party		
Communication Component	BC_N4N_CONSUMER	
Interface	SI_City_SS_out	
Namespace	urn:nick4name.eu:BIT400:A:WS	

Receiver

Communication Party	
Communication Component	
Description	

Inbound Processing

- Receiver
- Receiver Interfaces
- Outbound Processing
- Assigned Users
- Advanced Settings

Configuration for Interface SI_City_SS_out

Communication Channel *	CC_HTTP_GET_SS_SND		
Adapter Type	HTTP_AAE	http://sap.com/xi/XI/System	SAP BASIS 7.31
Adapter Engine	Central Adapter Engine		
Software Component Version of Sender Interface	SC_BIT400_A 1.0 of nick4name		
Virus Scan	Use Global Configuration		
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter		

Inbound Processing

- Receiver
- Receiver Interfaces
- Outbound Processing
- Assigned Users
- Advanced Settings

Type of Receiver Determination Standard Extended

Configured Receivers

Condition	Communication Party	Communication Component *
		BC_RECEIVER



IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

Receiver

Type Communication Component	Communication Party	Communication Component BC_RECEIVER
---------------------------------	---------------------	--

Receiver Interfaces *

Condition	Operation Mapping	Name *	Namespace *	Software Component Version	Multiplicity	Parameters
OM_HTTP_to_WS	SI_City_SS_In	urn:nick4name.eu:BIT400:B:WS	SC_BIT400_B 1.0 of nick4name	1		

Outbound Processing

Configuration for Interface SI_City_SS_in | urn:nick4name.eu:BIT400:B:WS | SC_BIT400_B 1.0 of nick4name

Communication Channel *	CC_SOAP_GetCitiesByCountry_SS_RCV		
Adapter Type	SOAP	[http://sap.com/xi/UISystem]	SAP BASIS 7.31
Adapter Engine	Central Adapter Engine		
Software Component Version of Receiver Interface	SC_BIT400_B 1.0 of nick4name		
Virus Scan	Use Global Configuration		
Schema Validation	<input checked="" type="radio"/> No Validation <input type="radio"/> Validation by Adapter		
Header Mapping	<input type="checkbox"/> Sender Communication Party <input type="checkbox"/> Sender Communication Component <input type="checkbox"/> Receiver Communication Party <input type="checkbox"/> Receiver Communication Component		
Principal Propagation Properties	<input type="checkbox"/> Propagate Principal <input type="checkbox"/> Metering of Service Calls		

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



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<https://www.nick4name.eu>

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Request 1

Name	Value	Style	Level
interfaceNamespace	urn:nick4name.eu:BIT400:A:WS	QUERY	RESOURCE
interface	SI_City_SS_out	QUERY	RESOURCE
senderService	BC_NAN_CONSUMER	QUERY	RESOURCE
senderParty		QUERY	RESOURCE
qos	BE	QUERY	RESOURCE
THENAMEYOUWANT	<xml version="1.0" encoding="UTF-8?><ns0:MT_CITY_req xmlns:ns0="urn:nick4name.eu:BIT400:A:WS">	QUERY	RESOURCE

Raw Request

Required: Sets if parameter is required
Type:
Options: Add... Edit... Remove...
Description:

Authorization: Basic

Username: N4NWSUSER
Password: training0
Domain:
Pre-emptive auth: Use global preference Authenticate pre-emptively

Raw Response

```

<GetCitiesResponse xmlns="http://nick4name.eu/" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:ns0="http://nick4name.eu/GetCities" soap:encodingStyle="http://schemas.xmlsoap.org/encoding/">
  <GetCitiesResult><!--NewDataSet-->
    <Table>
      <!--Country=Italia<City=CATANZARO</City><Region>CAL</Region><Province>C2</Province>--</Country>
    </Table>
    <Table>
      <!--Country=Italia<City=Cosenza</City><Region>CAL</Region><Province>CS</Province>--</Country>
    </Table>
    <Table>
      <!--Country=Italia<City=Crotone</City><Region>CAL</Region><Province>KR</Province>--</Country>
    </Table>
    <Table>
      <!--Country=Italia<City=Reggio Calabria</City><Region>CAL</Region><Province>RC</Province>--</Country>
    </Table>
    <Table>
      <!--Country=Italia<City=Vibo Valentia</City><Region>CAL</Region><Province>VV</Province>--</Country>
    </Table>
  </GetCitiesResult>
</GetCitiesResponse>

```

Headers (10) Attachments (0) SSL Info Representations (9) Schema (conflicts) JMS (0)

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

Message Monitor: Monitor Messages

16 Messages Selected

Favorites Related Links Go To Support Info

Message Status Overview Database Archive

Show Messages By: Status All Time Period: Last Hour Maximum Number of Result: 100 Go

Advanced

Message List

Resend	Cancel	Open Message	Change Layout	Esportare	Status	Status Details	Start Time	End Time	Sender Party	Sender Component	Receiver Party	Receiver Component	Interface	Interface Namespace
					Delivered		27.02.2020 22:27:37.307	27.02.2020 22:27:37.308		BC_RECEIVER		BC_NAN_CONSUMER	SI_City_SS_out	urn:nick4name.eu:BIT400:A:... um:nick4name.eu:BIT400:B:...
					Delivered		27.02.2020 22:27:37.116	27.02.2020 22:27:37.310		BC_RECEIVER		BC_NAN_CONSUMER	SI_City_SS_in	urn:nick4name.eu:BIT400:B:...

1 Messaggio request HTTP

2 Messaggio response SOAP



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IMPLEMENTAZIONE SCENARI SINGLE STACK SAP PI 7.31

HTTP Request monitor

Message Monitor: Monitor Messages

Favorites Related Links Go To Support Info

Message Status Overview Database Archive

Show Messages By: Status All Time Period: Last Hour Maximum Number of Result: 100 Go

Message List

Status	Status Details	Start Time	End Time	Sender Party	Sender Component	Receiver Party	Re
Delivered		27.02.2020 22:27:27.307	27.02.2020 22:27:27.308		BC_RECEIVER		BC
Delivered		27.02.2020 22:27:27.116	27.02.2020 22:27:27.310		BC_N4N_CONSUMER		BC
Delivered		27.02.2020 21:45:15.023	27.02.2020 21:45:15.025		BC_RECEIVER		BC
Delivered		27.02.2020 21:45:15.004	27.02.2020 21:45:15.027		BC_N4N_CONSUMER		BC
Delivered		27.02.2020 21:44:44.488	27.02.2020 21:44:44.492		BC_RECEIVER		BC

Message Details

Message Details Message Content Message Log Further Links

View Message Content

Message Tree

- XML Message
- SOAP Header
 - Main
 - ReliableMessaging
 - DynamicConfiguration
 - HopList
- SOAP Body
 - Manifest
- Payloads
 - MainDocument

TextPad - C:\Users\Administrator\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\KK3M104F\MainDocument (1).txt

```

File Modifica Cerca Visualizza Strumenti Macro Configura Finestra Guida
Ricerca incrementale □ Maiuscole/minuscole □
MainDocument (1).txt
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ns0: GetCities xmlns:ns0="http://nick4name.eu/"><ns0:region>CAL</ns0:region></ns0:GetCities>
```

SOAP Response monitor

Message Monitor: Monitor Messages

Favorites Related Links Go To Support Info

Message Status Overview Database Archive

Show Messages By: Status All Time Period: Last Hour Maximum Number of Result: 100 Go

Message List

Status	Status Details	Start Time	End Time	Sender Party	Sender Component	Receiver Party	Receiver Component	Interface
Delivered		27.02.2020 22:27:27.307	27.02.2020 22:27:27.308		BC_RECEIVER		BC_N4N_CONSUMER	SI_City_SS_of
Delivered		27.02.2020 22:27:27.116	27.02.2020 22:27:27.310		BC_RECEIVER		BC_N4N_CONSUMER	SI_City_SS_in
Delivered		27.02.2020 21:45:15.023	27.02.2020 21:45:15.025		BC_RECEIVER		BC_N4N_CONSUMER	SI_City_SS_out
Delivered		27.02.2020 21:45:15.004	27.02.2020 21:45:15.027		BC_RECEIVER		BC_N4N_CONSUMER	SI_City_SS_in
Delivered		27.02.2020 21:44:44.488	27.02.2020 21:44:44.492		BC_RECEIVER		BC_N4N_CONSUMER	SI_City_SS_out

Message Details

Message Details Message Content Message Log Further Links

View Message Content

Message Tree

- XML Message
- SOAP Header
 - Main
 - ReliableMessaging
 - HopList
- SOAP Body
 - Manifest

TextPad - C:\Users\Administrator\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\LM20CQR\message (1).txt

```

File Modifica Cerca Visualizza Strumenti Macro Configura Finestra Guida
Ricerca incrementale □ Maiuscole/minuscole □
message (1).txt
1 Content-ID: <soap-f3cf324959a711ea91600000042f086@sap.com>
2 Content-Disposition: attachment;filename="soap-f3cf324959a711ea91600000042f086@sap.com.xml"
3 Content-Type: text/xml; charset=utf-8
4 Content-Description: SOAP
5 <SOAP-Envelope xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/><SOAP-Header xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' xmlns:xsd='http://www.w3.org/2001/XMLSchema'>
6 Content-Description: attachment;filename='maindocument.xml'
7 Content-Description: maindocument
8 Content-Description: maindocument
9 <GetCitiesResponse xmlns='http://nick4name.eu/'> <ns0:soap="http://schemas.xmlsoap.org/soap/envelope/> <ns0:xmns:xsd='http://www.w3.org/2001/XMLSchema'> <ns0:xsi='http://www.w3.org/2001/XMLSchema-instance'>
10 &#x0;:Table</ns0:Table>
11 &#x0;:Country&#62;:Italia&#60;:City&#62;:CATANZARO&#60;:/City&#62;:&#60;Region&#62;:CAL&#60;:/Region&#62;:&#60;Province&#62;:CZ&#60;:/Province&#62;:&#60;Country&#62;
12 &#x0;:Table&#62;:
13 &#x0;:Table&#62;:
14 &#x0;:Country&#62;:Italia&#60;:City&#62;:Cosenza&#60;:/City&#62;:&#60;Region&#62;:CAL&#60;:/Region&#62;:&#60;Province&#62;:CS&#60;:/Province&#62;:&#60;Country&#62;
15 &#x0;:Table&#62;:
16 &#x0;:Table&#62;:
17 &#x0;:Country&#62;:Italia&#60;:City&#62;:Crotone&#60;:/City&#62;:&#60;Region&#62;:CAL&#60;:/Region&#62;:&#60;Province&#62;:KR&#60;:/Province&#62;:&#60;Country&#62;
```

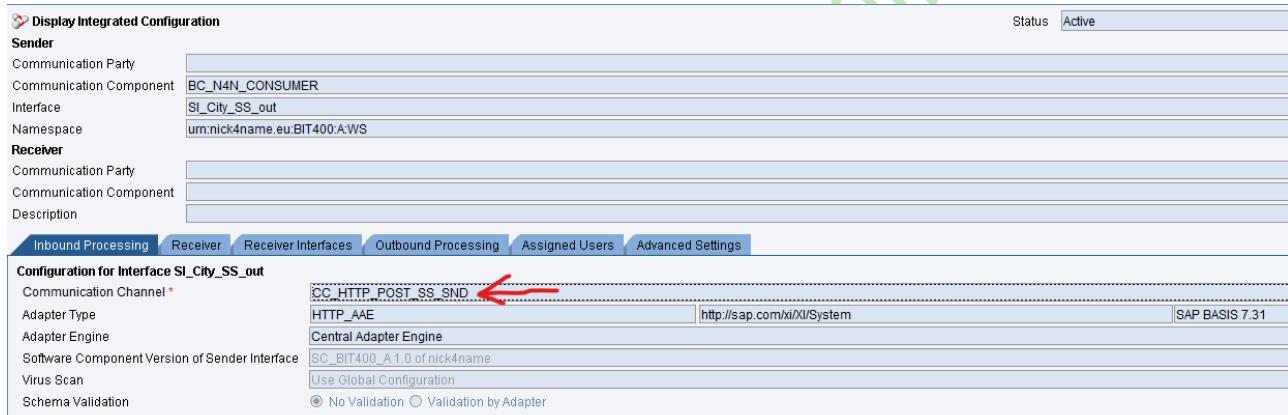


Modalità HTTP POST

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=SL_City_SS_out&senderService=BC_N4N_CONSUMER&senderParty=&qos=BE

dove

	Protocollo										
Indirizzo	<pi_server>:<port>/										
Path	HttpAdapter/HttpMessageServlet										
Parametri	<table border="1"> <tr> <td>interfaceNamespace</td><td>Namespace sender</td></tr> <tr> <td>interface</td><td>Service Interface sender</td></tr> <tr> <td>senderService</td><td>Business component sender</td></tr> <tr> <td>senderParty</td><td>Sender Party se usato altrimenti vuoto</td></tr> <tr> <td>qos</td><td>Quality of Service solitamente BE</td></tr> </table>	interfaceNamespace	Namespace sender	interface	Service Interface sender	senderService	Business component sender	senderParty	Sender Party se usato altrimenti vuoto	qos	Quality of Service solitamente BE
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.

The screenshot shows the SAP PI Request 1 interface. The top bar displays the method as POST, endpoint as urn:nick4name.eu:BIT400:A:WS, and resource as HttpMessageServlet. The parameters listed are interfaceNamespace, interface, senderService, senderParty, and qos. The XML payload is defined as follows:

```

<?xml version="1.0" encoding="UTF-8"?>
<ns0:MT_CITY_req xmlns:ns0="urn:nick4name.eu:BIT400:A:WS">
    <NAME>UMB</NAME>
</ns0:MT_CITY_req>

```

The right side of the interface shows the response XML, which includes a GetCitiesResponse message with city data for Perugia and Terni.

Authorization N4NWSUSER password: training0 (minuscolo)

Configurazione lato Enterprise Service Builder
Operation Mapping
Request

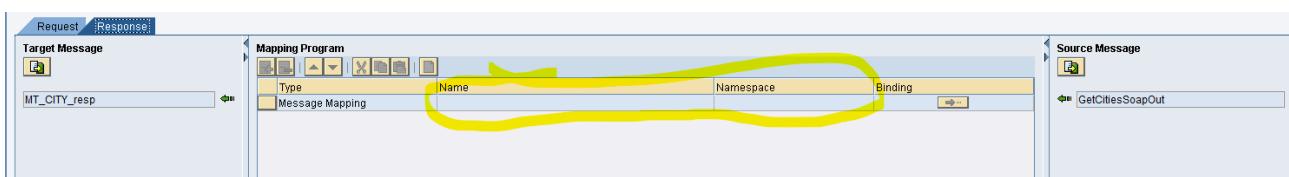
The screenshot shows the SAP ESB Operation Mapping configuration. It defines an operation mapping from OM_HTTP_to_WS to SC_BIT400_MAPPING. The Source Operation is OM_HTTP_to_WS, and the Target Operation is SC_BIT400_MAPPING. The Source Message is MT_CITY_req, and the Target Message is GetCitiesSoapIn. The Mapping Program is MM_HTTP_to_WS.

Response



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

