Guida all'architettura della piattaforma OpenCross

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Sommario

PREMESSA

Opencross è un applicativo di gestione delle pratiche dei servizi "a sportello", in grado di coordinare, attraverso un workflow, le transazioni tra tutti gli Attori coinvolti (Utenti, Intermediari, Comune, Enti Terzi). Opencross costituisce un ambiente web condiviso all'interno del quale, grazie ad una accurata gestione degli accessi e dei privilegi degli utenti, gli interessati possono gestire i propri adempimenti (gestione degli eventi, generazione ed invio delle comunicazioni, upload di documenti, firma, controllo scadenze, tracking della pratica, monitoraggio delle scadenze).

Opencross è nativamente integrato con il Front Office A&C garantendo la gestione completamente automatica delle pratiche, pur essendo un modulo indipendente dal punto di vista applicativo; consente in ogni caso il caricamento manuale delle informazioni.

Opencross interconnette, per ogni pratica SUAP, i backoffice di tutti gli Enti che partecipano alla gestione del Procedimento Unico e dei suoi endoprocedimenti.

1. Architettura della modalità di autenticazione

Il servizio di login dell'applicazione CROSS, ed il SSO (Single sign-on), è gestito dalla componente architetturale CAS (Central Authentication Service).

Di seguito nell'immagine viene illustrato il funzionamento di questa architettura:
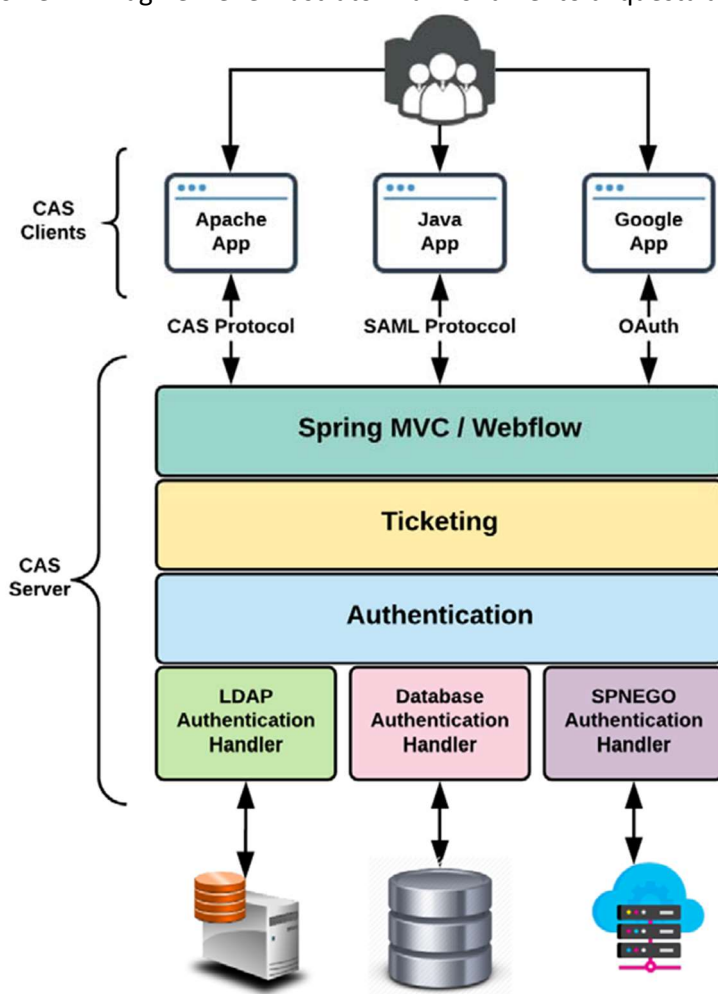
La componente CAS client è configurata tramite la libreria jar presente nella web applicazione (cas-client-core-3.3.3).

Accedendo all'url http://suapsuecross.collaudoavmtb/cross/, il file web.xml dell'applicazione è configurato, in modo da effettuare la redirect sul modulo web CAS, che contiene la componente CAS server.

Di seguito la configurazione del file web.xml, che contiene la valorizzazione degli oggetti filter.

```xml
<filter>
    <filter-name>CAS Authentication Filter</filter-name>
    <filter-class>it.wego.utils.cas.CustomAuthenticationFilter</filter-class>
    <init-param>
        <param-name>casServerLoginUrlMap</param-name>
        <param-value>suapsuecross.collaudoavmtb http://suapsuecross.collaudoavmtb/cas/login</param-value>
    </init-param>
    <init-param>
        <param-name>serverNameMap</param-name>
        <param-value>suapsuecross.collaudoavmtb http://suapsuecross.collaudoavmtb </param-value>
    </init-param>
     <init-param>
        <param-name>ignorePattern</param-name>
        <param-value>recuperaPassword</param-value>
    </init-param>
    <init-param>
        <param-name>ignoreUrlPatternType</param-name>
        <param-value>CONTAINS</param-value>
    </init-param>
</filter>

<filter>
    <filter-name>CAS Validation Filter</filter-name>
    <filter-class>it.wego.utils.cas.CustomCas20ProxyReceivingTicketValidationFilter</filter-class>
    <init-param>
        <param-name>casServerUrlPrefix</param-name>
        <param-value>http://suapsuecross.collaudoavmtb/cas</param-value>
    </init-param>
    <init-param>
        <param-name>serverNameMap</param-name>
         <param-value>suapsuecross.collaudoavmtb http://suapsuecross.collaudoavmtb</param-value>
    </init-param>
    <init-param>
        <param-name>artifactParameterName</param-name>
        <param-value>ticket</param-value>
    </init-param>
    <init-param>
        <param-name>redirectAfterValidation</param-name>
        <param-value>true</param-value>
    </init-param>
</filter>
```
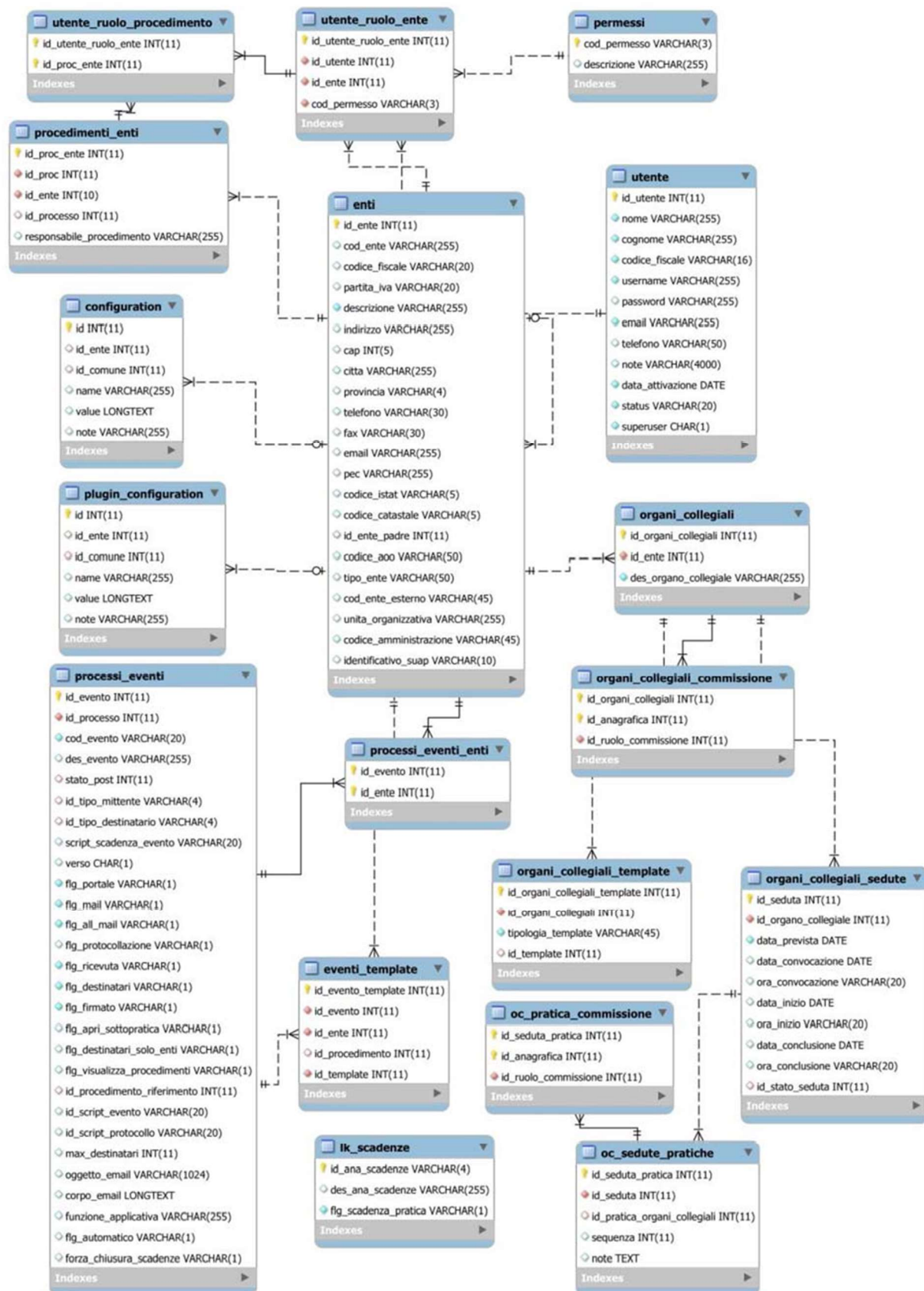
Una volta generato il ticket valido per la verifica dell'autenticazione, questa viene effettuata nel sistema che detiene le credenziali degli utenti, che nel caso in questione è un database MySQL.
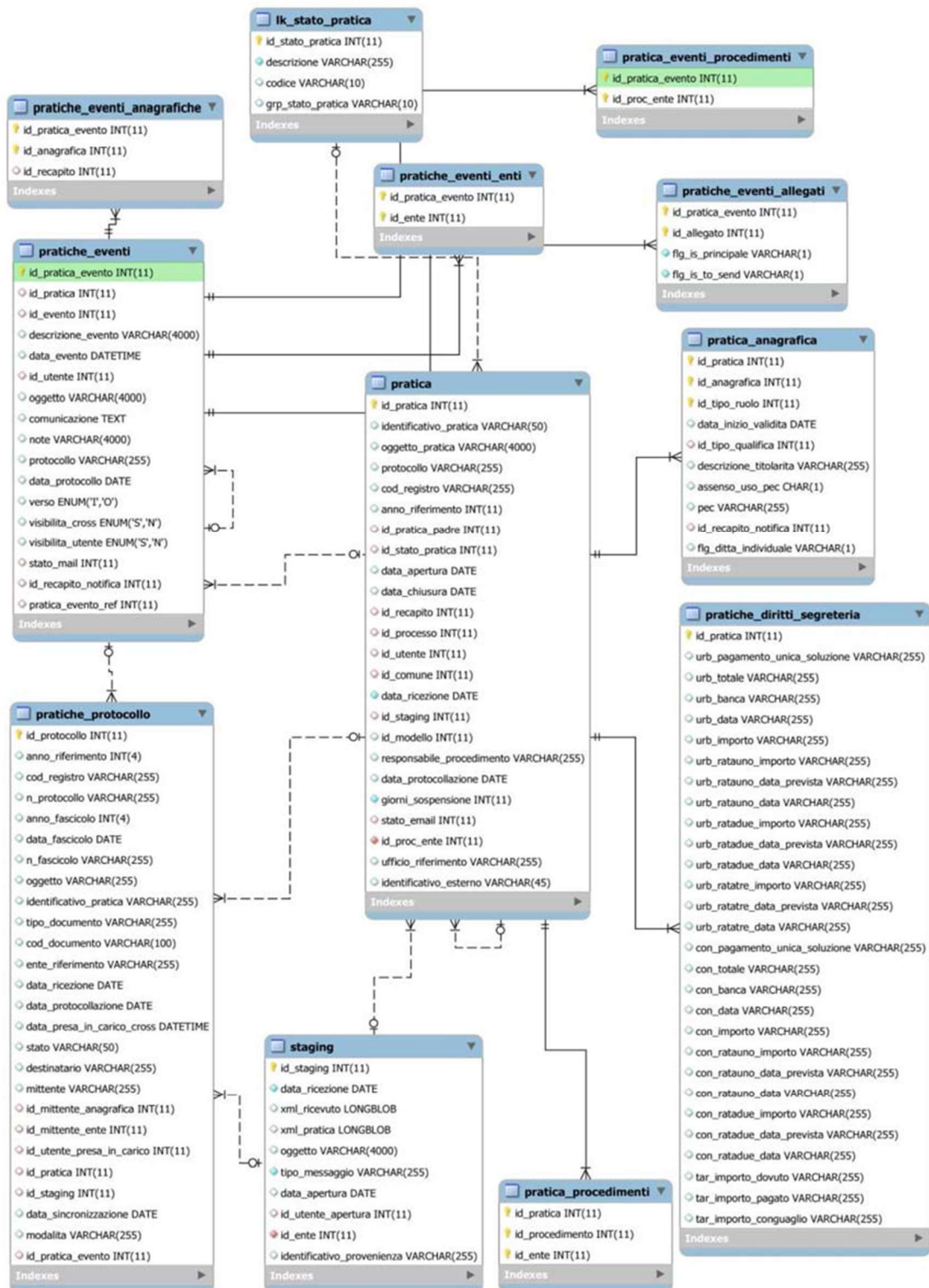
2. Database e modello dati

Opencross è configurabile per Ente, Procedimento, e Tipologia di Processo (Workflow) da associare alla pratica di competenza dell'Ente. Il database dell'applicazione è stato implementato su DBMS MySQL. Di seguito viene riportato il modello Relazionale del database realizzato (schema OPENCROSS):
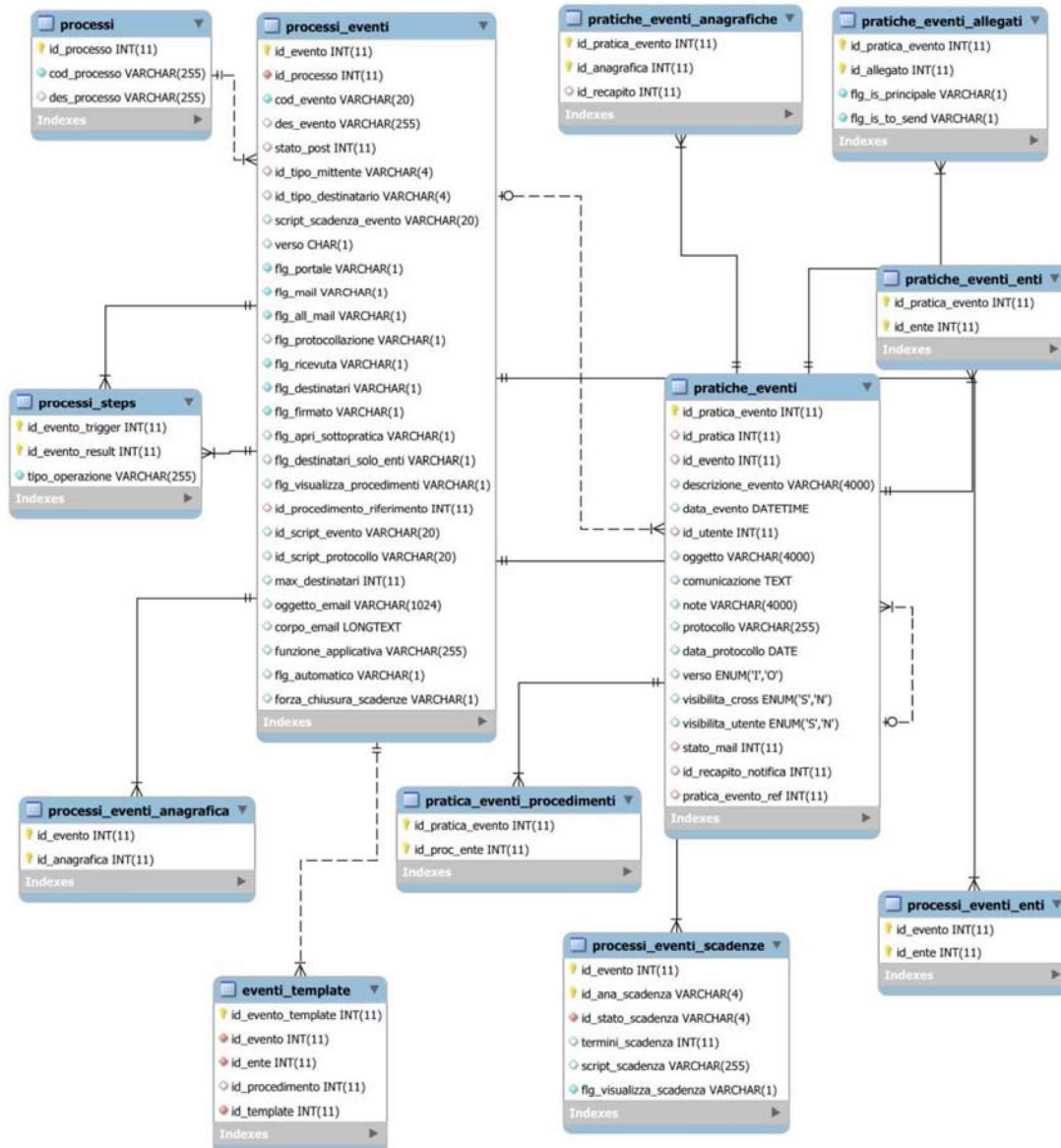
utente_ruolo_procedimento
- id_utente_ruolo_ente INT(11)
- id_proc_ente INT(11)
- Indexes

utente_ruolo_ente
- id_utente_ruolo_ente INT(11)
- id_utente INT(11)
- id_ente INT(11)
- cod_permesso VARCHAR(3)
- Indexes

permessi
- cod_permesso VARCHAR(3)
- descrizione VARCHAR(255)
- Indexes

procedimenti_enti
- id_proc_ente INT(11)
- id_proc INT(11)
- id_ente INT(10)
- id_processo INT(11)
- responsabile_procedimento VARCHAR(255)
- Indexes

enti
- id_ente INT(11)
- cod_ente VARCHAR(255)
- codice_fiscale VARCHAR(20)
- partita_iva VARCHAR(20)
- descrizione VARCHAR(255)
- indirizzo VARCHAR(255)
- cap INT(5)
- citta VARCHAR(255)
- provincia VARCHAR(4)
- telefono VARCHAR(30)
- fax VARCHAR(30)
- email VARCHAR(255)
- pec VARCHAR(255)
- codice_istat VARCHAR(5)
- codice_catastale VARCHAR(5)
- id_ente_padre INT(11)
- codice_aoo VARCHAR(50)
- tipo_ente VARCHAR(50)
- cod_ente_esterno VARCHAR(45)
- unita_organizzativa VARCHAR(255)
- codice_amministrazione VARCHAR(45)
- identificativo_suap VARCHAR(10)
- Indexes

utente
- id_utente INT(11)
- nome VARCHAR(255)
- cognome VARCHAR(255)
- codice_fiscale VARCHAR(16)
- username VARCHAR(255)
- password VARCHAR(255)
- email VARCHAR(255)
- telefono VARCHAR(50)
- note VARCHAR(4000)
- data_attivazione DATE
- status VARCHAR(20)
- superuser CHAR(1)
- Indexes

configuration
- id INT(11)
- id_ente INT(11)
- id_comune INT(11)
- name VARCHAR(255)
- value LONGTEXT
- note VARCHAR(255)
- Indexes

plugin_configuration
- id INT(11)
- id_ente INT(11)
- id_comune INT(11)
- name VARCHAR(255)
- value LONGTEXT
- note VARCHAR(255)
- Indexes

organi_collegiali
- id_organi_collegiali INT(11)
- id_ente INT(11)
- des_organo_collegiale VARCHAR(255)
- Indexes

organi_collegiali_commissione
- id_organi_collegiali INT(11)
- id_anagrafica INT(11)
- id_ruolo_commissione INT(11)
- Indexes

processi_eventi
- id_evento INT(11)
- id_processo INT(11)
- cod_evento VARCHAR(20)
- des_evento VARCHAR(255)
- stato_post INT(11)
- id_tipo_mittente VARCHAR(4)
- id_tipo_destinatario VARCHAR(4)
- script_scadenza_evento VARCHAR(20)
- verso CHAR(1)
- flg_portale VARCHAR(1)
- flg_mail VARCHAR(1)
- flg_all_mail VARCHAR(1)
- flg_protocollazione VARCHAR(1)
- flg_ricevuta VARCHAR(1)
- flg_destinatari VARCHAR(1)
- flg_firmato VARCHAR(1)
- flg_apri_sottopratica VARCHAR(1)
- flg_destinatari_solo_enti VARCHAR(1)
- flg_visualizza_procedimenti VARCHAR(1)
- id_procedimento_riferimento INT(11)
- id_script_evento VARCHAR(20)
- id_script_protocollo VARCHAR(20)
- max_destinatari INT(11)
- oggetto_email VARCHAR(1024)
- corpo_email LONGTEXT
- funzione_applicativa VARCHAR(255)
- flg_automatico VARCHAR(1)
- forza_chiusura_scadenze VARCHAR(1)
- Indexes

processi_eventi_enti
- id_evento INT(11)
- id_ente INT(11)
- Indexes

organi_collegiali_template
- id_organi_collegiali_template INT(11)
- id_organi_collegiali INT(11)
- tipologia_template VARCHAR(45)
- id_template INT(11)
- Indexes

organi_collegiali_sedute
- id_seduta INT(11)
- id_organo_collegiale INT(11)
- data_prevista DATE
- data_convocazione DATE
- ora_convocazione VARCHAR(20)
- data_inizio DATE
- ora_inizio VARCHAR(20)
- data_conclusione DATE
- ora_conclusione VARCHAR(20)
- id_stato_seduta INT(11)
- Indexes

eventi_template
- id_evento_template INT(11)
- id_evento INT(11)
- id_ente INT(11)
- id_procedimento INT(11)
- id_template INT(11)
- Indexes

oc_pratica_commissione
- id_seduta_pratica INT(11)
- id_anagrafica INT(11)
- id_ruolo_commissione INT(11)
- Indexes

lk_scadenze
- id_ana_scadenze VARCHAR(4)
- des_ana_scadenze VARCHAR(255)
- flg_scadenza_pratica VARCHAR(1)
- Indexes

oc_sedute_pratiche
- id_seduta_pratica INT(11)
- id_seduta INT(11)
- id_pratica_organi_collegiali INT(11)
- sequenza INT(11)
- note TEXT
- Indexes

enti-procedimenti-processi-er

Opencross gestisce diverse tipologie di Anagrafiche in relazione alla pratica.

lk_stato_pratica
- id_stato_pratica INT(11)
- descrizione VARCHAR(255)
- codice VARCHAR(10)
- grp_stato_pratica VARCHAR(10)
- Indexes

pratica_eventi_procedimenti
- id_pratica_evento INT(11)
- id_proc_ente INT(11)
- Indexes

pratiche_eventi_anagrafiche
- id_pratica_evento INT(11)
- id_anagrafica INT(11)
- id_recapito INT(11)
- Indexes

pratiche_eventi_enti
- id_pratica_evento INT(11)
- id_ente INT(11)
- Indexes

pratiche_eventi_allegati
- id_pratica_evento INT(11)
- id_allegato INT(11)
- flg_is_principale VARCHAR(1)
- flg_is_to_send VARCHAR(1)
- Indexes

pratiche_eventi
- id_pratica_evento INT(11)
- id_pratica INT(11)
- id_evento INT(11)
- descrizione_evento VARCHAR(4000)
- data_evento DATETIME
- id_utente INT(11)
- oggetto VARCHAR(4000)
- comunicazione TEXT
- note VARCHAR(4000)
- protocollo VARCHAR(255)
- data_protocollo DATE
- verso ENUM('I','O')
- visibilita_cross ENUM('S','N')
- visibilita_utente ENUM('S','N')
- stato_mail INT(11)
- id_recapito_notifica INT(11)
- pratica_evento_ref INT(11)
- Indexes

pratica
- id_pratica INT(11)
- identificativo_pratica VARCHAR(50)
- oggetto_pratica VARCHAR(4000)
- protocollo VARCHAR(255)
- cod_registro VARCHAR(255)
- anno_riferimento INT(11)
- id_pratica_padre INT(11)
- id_stato_pratica INT(11)
- data_apertura DATE
- data_chiusura DATE
- id_recapito INT(11)
- id_processo INT(11)
- id_utente INT(11)
- id_comune INT(11)
- data_ricezione DATE
- id_staging INT(11)
- id_modello INT(11)
- responsabile_procedimento VARCHAR(255)
- data_protocollazione DATE
- giorni_sospensione INT(11)
- stato_email INT(11)
- id_proc_ente INT(11)
- ufficio_riferimento VARCHAR(255)
- identificativo_esterno VARCHAR(45)
- Indexes

pratica_anagrafica
- id_pratica INT(11)
- id_anagrafica INT(11)
- id_tipo_ruolo INT(11)
- data_inizio_validita DATE
- id_tipo_qualifica INT(11)
- descrizione_titolarita VARCHAR(255)
- assenso_uso_pec CHAR(1)
- pec VARCHAR(255)
- id_recapito_notifica INT(11)
- flg_ditta_individuale VARCHAR(1)
- Indexes

pratiche_protocollo
- id_protocollo INT(11)
- anno_riferimento INT(4)
- cod_registro VARCHAR(255)
- n_protocollo VARCHAR(255)
- anno_fascicolo INT(4)
- data_fascicolo DATE
- n_fascicolo VARCHAR(255)
- oggetto VARCHAR(255)
- identificativo_pratica VARCHAR(255)
- tipo_documento VARCHAR(255)
- cod_documento VARCHAR(100)
- ente_riferimento VARCHAR(255)
- data_ricezione DATE
- data_protocollazione DATE
- data_presa_in_carico_cross DATETIME
- stato VARCHAR(50)
- destinatario VARCHAR(255)
- mittente VARCHAR(255)
- id_mittente_anagrafica INT(11)
- id_mittente_ente INT(11)
- id_utente_presa_in_carico INT(11)
- id_pratica INT(11)
- id_staging INT(11)
- data_sincronizzazione DATE
- modalita VARCHAR(255)
- id_pratica_evento INT(11)
- Indexes

staging
- id_staging INT(11)
- data_ricezione DATE
- xml_ricevuto LONGBLOB
- xml_pratica LONGBLOB
- oggetto VARCHAR(4000)
- tipo_messaggio VARCHAR(255)
- data_apertura DATE
- id_utente_apertura INT(11)
- id_ente INT(11)
- identificativo_provenienza VARCHAR(255)
- Indexes

pratica_procedimenti
- id_pratica INT(11)
- id_procedimento INT(11)
- id_ente INT(11)
- Indexes

pratiche_diritti_segreteria
- id_pratica INT(11)
- urb_pagamento_unica_soluzione VARCHAR(255)
- urb_totale VARCHAR(255)
- urb_banca VARCHAR(255)
- urb_data VARCHAR(255)
- urb_importo VARCHAR(255)
- urb_ratauno_importo VARCHAR(255)
- urb_ratauno_data_prevista VARCHAR(255)
- urb_ratauno_data VARCHAR(255)
- urb_ratadue_importo VARCHAR(255)
- urb_ratadue_data_prevista VARCHAR(255)
- urb_ratadue_data VARCHAR(255)
- urb_ratatre_importo VARCHAR(255)
- urb_ratatre_data_prevista VARCHAR(255)
- urb_ratatre_data VARCHAR(255)
- con_pagamento_unica_soluzione VARCHAR(255)
- con_totale VARCHAR(255)
- con_banca VARCHAR(255)
- con_data VARCHAR(255)
- con_importo VARCHAR(255)
- con_ratauno_importo VARCHAR(255)
- con_ratauno_data_prevista VARCHAR(255)
- con_ratauno_data VARCHAR(255)
- con_ratadue_importo VARCHAR(255)
- con_ratadue_data_prevista VARCHAR(255)
- con_ratadue_data VARCHAR(255)
- tar_importo_dovuto VARCHAR(255)
- tar_importo_pagato VARCHAR(255)
- tar_importo_conguaglio VARCHAR(255)
- Indexes

pratica-er

Opencross fornisce e traccia gli eventi / processi da mettere in atto per la gestione della pratica

processi
- id_processo INT(11)
- cod_processo VARCHAR(255)
- des_processo VARCHAR(255)
- Indexes

processi_eventi
- id_evento INT(11)
- id_processo INT(11)
- cod_evento VARCHAR(20)
- des_evento VARCHAR(255)
- stato_post INT(11)
- id_tipo_mittente VARCHAR(4)
- id_tipo_destinatario VARCHAR(4)
- script_scadenza_evento VARCHAR(20)
- verso CHAR(1)
- flg_portale VARCHAR(1)
- flg_mail VARCHAR(1)
- flg_all_mail VARCHAR(1)
- flg_protocollazione VARCHAR(1)
- flg_ricevuta VARCHAR(1)
- flg_destinatari VARCHAR(1)
- flg_firmato VARCHAR(1)
- flg_apri_sottopratica VARCHAR(1)
- flg_destinatari_solo_enti VARCHAR(1)
- flg_visualizza_procedimenti VARCHAR(1)
- id_procedimento_riferimento INT(11)
- id_script_evento VARCHAR(20)
- id_script_protocollo VARCHAR(20)
- max_destinatari INT(11)
- oggetto_email VARCHAR(1024)
- corpo_email LONGTEXT
- funzione_applicativa VARCHAR(255)
- flg_automatico VARCHAR(1)
- forza_chiusura_scadenze VARCHAR(1)
- Indexes

pratiche_eventi_anagrafiche
- id_pratica_evento INT(11)
- id_anagrafica INT(11)
- id_recapito INT(11)
- Indexes

pratiche_eventi_allegati
- id_pratica_evento INT(11)
- id_allegato INT(11)
- flg_is_principale VARCHAR(1)
- flg_is_to_send VARCHAR(1)
- Indexes

pratiche_eventi_enti
- id_pratica_evento INT(11)
- id_ente INT(11)
- Indexes

processi_steps
- id_evento_trigger INT(11)
- id_evento_result INT(11)
- tipo_operazione VARCHAR(255)
- Indexes

pratiche_eventi
- id_pratica_evento INT(11)
- id_pratica INT(11)
- id_evento INT(11)
- descrizione_evento VARCHAR(4000)
- data_evento DATETIME
- id_utente INT(11)
- oggetto VARCHAR(4000)
- comunicazione TEXT
- note VARCHAR(4000)
- protocollo VARCHAR(255)
- data_protocollo DATE
- verso ENUM('I','O')
- visibilita_cross ENUM('S','N')
- visibilita_utente ENUM('S','N')
- stato_mail INT(11)
- id_recapito_notifica INT(11)
- pratica_evento_ref INT(11)
- Indexes

processi_eventi_anagrafica
- id_evento INT(11)
- id_anagrafica INT(11)
- Indexes

pratica_eventi_procedimenti
- id_pratica_evento INT(11)
- id_proc_ente INT(11)
- Indexes

processi_eventi_enti
- id_evento INT(11)
- id_ente INT(11)
- Indexes

eventi_template
- id_evento_template INT(11)
- id_evento INT(11)
- id_ente INT(11)
- id_procedimento INT(11)
- id_template INT(11)
- Indexes

processi_eventi_scadenze
- id_evento INT(11)
- id_ana_scadenza VARCHAR(4)
- id_stato_scadenza VARCHAR(4)
- termini_scadenza INT(11)
- script_scadenza VARCHAR(255)
- flg_visualizza_scadenza VARCHAR(1)
- Indexes

pratica-eventi-er

Opencross fornisce la possibilità di profilare gli utenti, i plugin di integrazione con il protocollo , i parametri per la configurazione del MAIL SERVER , gli organi collegiali e le commissioni per la gestione della configurazione dei servizi.
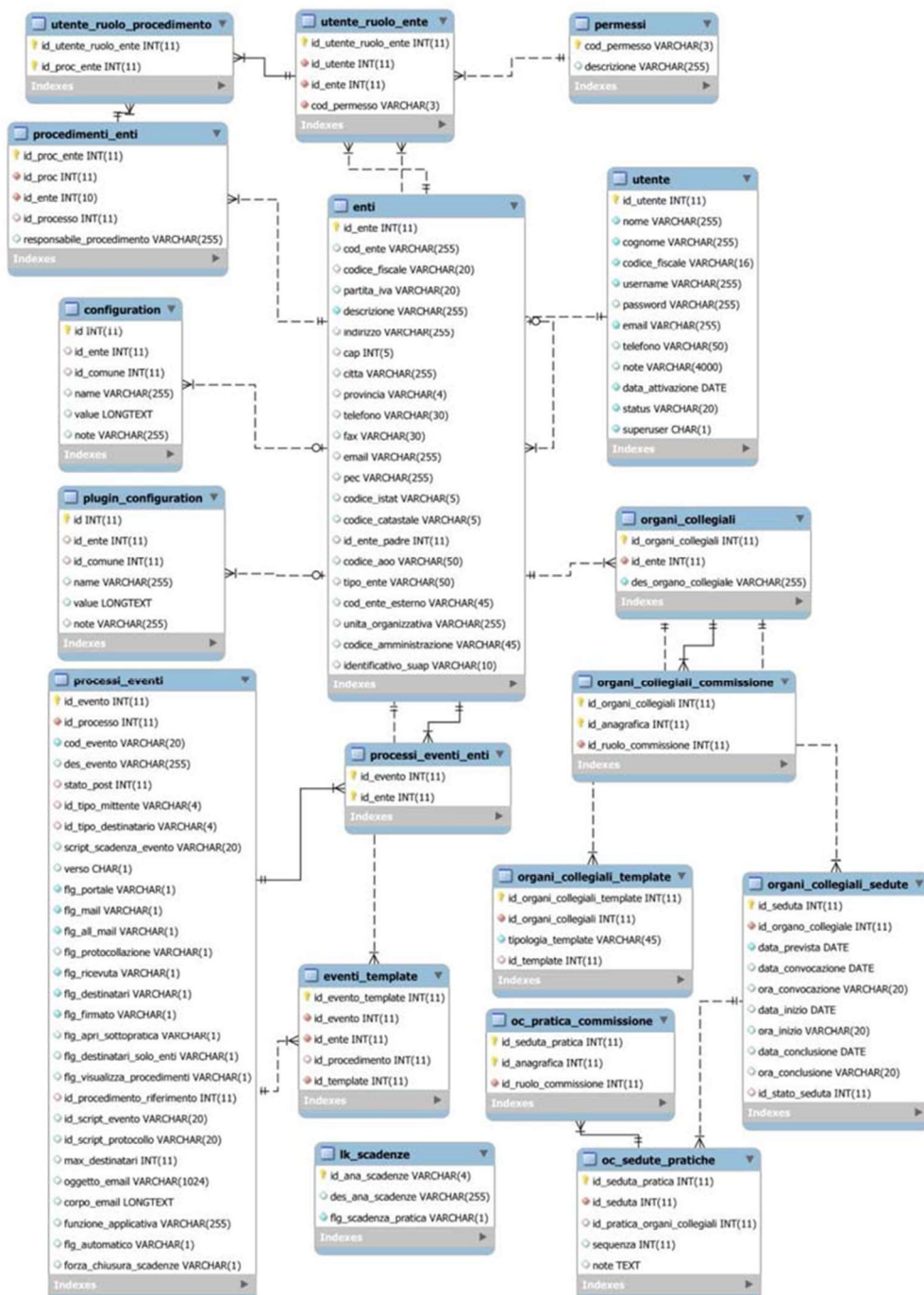
enti-processi-relazioni enti-er

3. Framework utilizzati e versioni

Scopo del framework	Framework utilizzato	Versione	Link ufficiale di riferimento
Implementazione del pattern MVC	Springframework	3.1.1	https://spring.io/blog/2012/02/17/spring-framework-3-1-1-released
Implementazione del pattern DAO	Hibernate	4.2.0	https://hibernate.org/orm/releases/4.2/
Gestione templates delle componenti view	Apache Tiles	2.2.2	https://tiles.apache.org/2.2/framework/index.html
Esposizione di Web Service	Apache CXF	2.3.9	http://cxf.apache.org/apache-cxf-239-release-notes.html
Gestione del flusso BPMN 2.0	Activiti	5.15.1	https://www.activiti.org/userguide/
Gestione dei log applicativi	SLF4J	1.7.25	http://www.slf4j.org/docs.html
Generazione di documenti	itextpdf	5.5.2	https://itextpdf.com/en/resources/releases/release-itext-552

4. Architettura dei servizi esposti

I web service esposti da parte della piattaforma CROSS, sono realizzati secondo l'architettura SOAP ed implementati con la tecnologia Apache CXF.

Attraverso l'URL http://suapsuecross.collaudoavmtb/cross-ws/services è possibile vedere l'elenco dei servizi esposti. Di seguito l'elenco:

Elenco servizi esposti

WSDL servizio AggiornaSuapSoap

```
<wsdl:definitions
    xmlns:ns1="http://schemas.xmlsoap.org/soap/http"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:tns="http://italysolution.com/Suap"
```

```xml
        xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="AggiornaSuap"
        targetNamespace="http://italysolution.com/Suap">
        <wsdl:types>
                <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
                        elementFormDefault="qualified"
                        targetNamespace="http://italysolution.com/Suap" version="1.0">
                        <xs:element name="Aggiorna">
                                <xs:complexType>
                                        <xs:sequence>
                                                <xs:element minOccurs="0" name="user"
type="xs:string" />
                                                <xs:element minOccurs="0" name="password"
                                                        type="xs:string" />
                                                <xs:element minOccurs="0" name="dati"
type="xs:string" />
                                        </xs:sequence>
                                </xs:complexType>
                        </xs:element>
                        <xs:element name="AggiornaResponse">
                                <xs:complexType>
                                        <xs:sequence>
                                                <xs:element minOccurs="0" name="AggiornaResult"
                                                        type="xs:string" />
                                        </xs:sequence>
                                </xs:complexType>
                        </xs:element>
                </xs:schema>
        </wsdl:types>
        <wsdl:message name="Aggiorna">
                <wsdl:part element="tns:Aggiorna" name="parameters">
                </wsdl:part>
        </wsdl:message>
        <wsdl:message name="AggiornaResponse">
                <wsdl:part element="tns:AggiornaResponse" name="parameters">
                </wsdl:part>
        </wsdl:message>
        <wsdl:portType name="AggiornaSuapSoap">
                <wsdl:operation name="Aggiorna">
                        <wsdl:input message="tns:Aggiorna" name="Aggiorna">
                        </wsdl:input>
                        <wsdl:output message="tns:AggiornaResponse"
                                name="AggiornaResponse">
                        </wsdl:output>
                </wsdl:operation>
        </wsdl:portType>
        <wsdl:binding name="AggiornaSuapSoapBinding"
                type="tns:AggiornaSuapSoap">
                <soap:binding style="document"
                        transport="http://schemas.xmlsoap.org/soap/http" />
                <wsdl:operation name="Aggiorna">
                        <soap:operation
                                soapAction="http://italysolution.com/Suap/Aggiorna"
style="document" />
                        <wsdl:input name="Aggiorna">
                                <soap:body use="literal" />
                        </wsdl:input>
                        <wsdl:output name="AggiornaResponse">
                                <soap:body use="literal" />
                        </wsdl:output>
                </wsdl:operation>
```

```xml
        </wsdl:binding>
        <wsdl:service name="AggiornaSuap">
            <wsdl:port binding="tns:AggiornaSuapSoapBinding"
                name="AggiornaSuapSoap12">
                <soap:address
                    location="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/AggiornaSuap" />
            </wsdl:port>
        </wsdl:service>
</wsdl:definitions>
```

WSDL servizio CripalPraticheService

```xml
<wsdl:definitions
        xmlns:cross="http://www.wego.it/cross"
        xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
        xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
        xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
        xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
        xmlns:wsoap12="http://schemas.xmlsoap.org/wsdl/soap12/"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        name="CripalPraticheService" targetNamespace="http://www.wego.it/cross">
        <wsdl:types>
            <xs:schema xmlns:cross="http://www.wego.it/cross"
                    xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
                    xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
                    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
                    xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
                    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
                    xmlns:wsoap12="http://schemas.xmlsoap.org/wsdl/soap12/"
                    xmlns:xs="http://www.w3.org/2001/XMLSchema"
                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    attributeFormDefault="unqualified" elementFormDefault="qualified">
                <xs:import namespace="http://www.wego.it/cross"
                        schemaLocation="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/CripalPraticheService?xsd=cripal-pratiche-service.xsd" />
                <xs:element name="PraticaDetailRequest"
                        type="cross:PraticaDetailRequest" />
                <xs:element name="PraticaDetailResponse"
                        type="cross:PraticaDetailResponse" />
                <xs:element name="ElencoPraticheRequest"
                        type="cross:ElencoPraticheRequest" />
                <xs:element name="ElencoPraticheResponse"
                        type="cross:ElencoPraticheResponse" />
            </xs:schema>
        </wsdl:types>
        <wsdl:message name="getPraticaDetailRequest">
            <wsdl:part element="cross:PraticaDetailRequest"
                name="parameters">
            </wsdl:part>
        </wsdl:message>
        <wsdl:message name="getPraticheListRequest">
            <wsdl:part element="cross:ElencoPraticheRequest"
                name="parameters">
            </wsdl:part>
        </wsdl:message>
        <wsdl:message name="getPraticaDetailResponse">
```

```xml
            <wsdl:part element="cross:PraticaDetailResponse"
                    name="parameters">
            </wsdl:part>
    </wsdl:message>
    <wsdl:message name="getPraticheListResponse">
            <wsdl:part element="cross:ElencoPraticheResponse"
                    name="parameters">
            </wsdl:part>
    </wsdl:message>
    <wsdl:portType name="CripalPraticheService">
            <wsdl:operation name="getPraticaDetail">
                    <wsdl:input message="cross:getPraticaDetailRequest"
                            name="getPraticaDetailRequest">
                    </wsdl:input>
                    <wsdl:output message="cross:getPraticaDetailResponse"
                            name="getPraticaDetailResponse">
                    </wsdl:output>
            </wsdl:operation>
            <wsdl:operation name="getPraticheList">
                    <wsdl:input message="cross:getPraticheListRequest"
                            name="getPraticheListRequest">
                    </wsdl:input>
                    <wsdl:output message="cross:getPraticheListResponse"
                            name="getPraticheListResponse">
                    </wsdl:output>
            </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CripalPraticheServiceSoapBinding"
            type="cross:CripalPraticheService">
            <soap:binding style="document"
                    transport="http://schemas.xmlsoap.org/soap/http" />
            <wsdl:operation name="getPraticaDetail">
                    <soap:operation soapAction="" style="document" />
                    <wsdl:input name="getPraticaDetailRequest">
                            <soap:body use="literal" />
                    </wsdl:input>
                    <wsdl:output name="getPraticaDetailResponse">
                            <soap:body use="literal" />
                    </wsdl:output>
            </wsdl:operation>
            <wsdl:operation name="getPraticheList">
                    <soap:operation soapAction="" style="document" />
                    <wsdl:input name="getPraticheListRequest">
                            <soap:body use="literal" />
                    </wsdl:input>
                    <wsdl:output name="getPraticheListResponse">
                            <soap:body use="literal" />
                    </wsdl:output>
            </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="CripalPraticheService">
            <wsdl:port binding="cross:CripalPraticheServiceSoapBinding"
                    name="CripalPraticheService">
                    <soap:address
                            location="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/CripalPraticheService" />
            </wsdl:port>
    </wsdl:service>
</wsdl:definitions>
```

WSDL servizio CrossServices

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<wsdl:definitions
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
      xmlns:tns="http://interoperability.cxf.webservices.cross.wego.it/"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
      xmlns:ns1="http://schemas.xmlsoap.org/soap/http"
      targetNamespace="http://interoperability.cxf.webservices.cross.wego.it/"
      name="CrossServicesImplService">
      <wsdl:types>
            <xs:schema
                  xmlns:tns="http://interoperability.cxf.webservices.cross.wego.it/"

      targetNamespace="http://interoperability.cxf.webservices.cross.wego.it/"

                  xmlns:xs="http://www.w3.org/2001/XMLSchema"
                  elementFormDefault="unqualified" attributeFormDefault="unqualified">
                  <xs:element name="getListaEventi"
                        type="tns:getListaEventi" />
                  <xs:element name="getListaEventiResponse"
                        type="tns:getListaEventiResponse" />
                  <xs:element name="inserisciEvento"
                        type="tns:inserisciEvento" />
                  <xs:element name="inserisciEventoResponse"
                        type="tns:inserisciEventoResponse" />
                  <xs:complexType name="inserisciEvento">
                        <xs:sequence>
                              <xs:element name="evento" type="tns:evento"
                                    minOccurs="0" />
                        </xs:sequence>
                  </xs:complexType>
                  <xs:complexType name="evento">
                        <xs:sequence>
                              <xs:element name="allegati" type="tns:allegati"
                                    minOccurs="0" />
                              <xs:element name="codiceEnte" type="xs:string"
                                    minOccurs="0" />
                              <xs:element name="codiceEvento" type="xs:string"
                                    minOccurs="0" />
                              <xs:element name="comunicazione"
                                    type="tns:comunicazione" minOccurs="0" />
                              <xs:element name="dataEvento" type="xs:dateTime"
                                    minOccurs="0" />
                              <xs:element name="dataProtocollo" type="xs:dateTime"
                                    minOccurs="0" />
                              <xs:element name="descrizioneEvento" type="xs:string"
                                    minOccurs="0" />
                              <xs:element name="idEvento" type="xs:int" minOccurs="0"
/>
                              <xs:element name="idPratica" type="xs:int" minOccurs="0"
/>
                              <xs:element name="identificativoPratica"
                                    type="xs:string" minOccurs="0" />
                              <xs:element name="numeroProtocollo" type="xs:string"
                                    minOccurs="0" />
                              <xs:element name="soggetto" type="tns:soggetti"
                                    minOccurs="0" />
                        </xs:sequence>
                  </xs:complexType>
```

```xml
<xs:complexType name="allegati">
    <xs:sequence>
        <xs:element name="allegati" type="tns:allegato"
            minOccurs="0" nillable="true"
            maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="allegato">
    <xs:sequence>
        <xs:element name="descrizione" type="xs:string"
            minOccurs="0" />
        <xs:element name="file" type="xs:string" minOccurs="0" />
        <xs:element name="idFileEsterno" type="xs:string"
            minOccurs="0" />
        <xs:element name="mimeType" type="xs:string"
            minOccurs="0" />
        <xs:element name="nomeFile" type="xs:string"
            minOccurs="0" />
        <xs:element name="principale" type="xs:boolean"
            minOccurs="0" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="comunicazione">
    <xs:sequence>
        <xs:element name="contenuto" type="xs:string"
            minOccurs="0" />
        <xs:element name="oggetto" type="xs:string"
            minOccurs="0" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="soggetti">
    <xs:sequence>
        <xs:element name="soggetti" type="tns:soggetto"
            minOccurs="0" nillable="true"
            maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="soggetto">
    <xs:sequence>
        <xs:element name="codice" type="xs:string" minOccurs="0"
        />
        <xs:element name="codiceFiscale" type="xs:string"
            minOccurs="0" />
        <xs:element name="tipoSoggetto" type="tns:tipoSoggetto"
            minOccurs="0" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="inserisciEventoResponse">
    <xs:sequence>
        <xs:element name="evento" type="tns:evento"
            minOccurs="0" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="getListaEventi">
    <xs:sequence>
        <xs:element name="idPratica" type="xs:int" minOccurs="0"
        />
        <xs:element name="identificativoPratica"
            type="xs:string" minOccurs="0" />
        <xs:element name="codiceEnte" type="xs:string"
            minOccurs="0" />
```

```xml
                    </xs:sequence>
                </xs:complexType>
                <xs:complexType name="getListaEventiResponse">
                    <xs:sequence>
                        <xs:element name="eventi" type="tns:eventi"
                            minOccurs="0" />
                    </xs:sequence>
                </xs:complexType>
                <xs:complexType name="eventi">
                    <xs:sequence>
                        <xs:element name="evento" type="tns:evento"
                            minOccurs="0" nillable="true"
maxOccurs="unbounded" />
                    </xs:sequence>
                </xs:complexType>
                <xs:simpleType name="tipoSoggetto">
                    <xs:restriction base="xs:string">
                        <xs:enumeration value="ANAGRAFICA" />
                        <xs:enumeration value="ENTE" />
                    </xs:restriction>
                </xs:simpleType>
                <xs:element name="CrossServicesException"
                    type="tns:CrossServicesException" />
                <xs:complexType name="CrossServicesException">
                    <xs:sequence>
                        <xs:element name="detail" type="xs:string"
                            nillable="true" />
                    </xs:sequence>
                </xs:complexType>
            </xs:schema>
    </wsdl:types>
    <wsdl:message name="getListaEventi">
        <wsdl:part name="parameters" element="tns:getListaEventi">
        </wsdl:part>
    </wsdl:message>
    <wsdl:message name="getListaEventiResponse">
        <wsdl:part name="parameters"
            element="tns:getListaEventiResponse">
        </wsdl:part>
    </wsdl:message>
    <wsdl:message name="inserisciEvento">
        <wsdl:part name="parameters" element="tns:inserisciEvento">
        </wsdl:part>
    </wsdl:message>
    <wsdl:message name="inserisciEventoResponse">
        <wsdl:part name="parameters"
            element="tns:inserisciEventoResponse">
        </wsdl:part>
    </wsdl:message>
    <wsdl:message name="CrossServicesException">
        <wsdl:part name="CrossServicesException"
            element="tns:CrossServicesException">
        </wsdl:part>
    </wsdl:message>
    <wsdl:portType name="CrossServices">
        <wsdl:operation name="inserisciEvento">
            <wsdl:input name="inserisciEvento"
                message="tns:inserisciEvento">
            </wsdl:input>
            <wsdl:output name="inserisciEventoResponse"
                message="tns:inserisciEventoResponse">
```

```xml
            </wsdl:output>
            <wsdl:fault name="CrossServicesException"
                    message="tns:CrossServicesException">
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="getListaEventi">
            <wsdl:input name="getListaEventi"
                    message="tns:getListaEventi">
            </wsdl:input>
            <wsdl:output name="getListaEventiResponse"
                    message="tns:getListaEventiResponse">
            </wsdl:output>
            <wsdl:fault name="CrossServicesException"
                    message="tns:CrossServicesException">
            </wsdl:fault>
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CrossServicesImplServiceSoapBinding"
            type="tns:CrossServices">
        <soap:binding
                transport="http://schemas.xmlsoap.org/soap/http" style="document" />
        <wsdl:operation name="inserisciEvento">
            <soap:operation style="document" soapAction="" />
            <wsdl:input name="inserisciEvento">
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output name="inserisciEventoResponse">
                <soap:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="CrossServicesException">
                <soap:fault name="CrossServicesException" use="literal" />
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="getListaEventi">
            <soap:operation style="document" soapAction="" />
            <wsdl:input name="getListaEventi">
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output name="getListaEventiResponse">
                <soap:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="CrossServicesException">
                <soap:fault name="CrossServicesException" use="literal" />
            </wsdl:fault>
        </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="CrossServicesImplService">
        <wsdl:port name="CrossServicesImplPort"
                binding="tns:CrossServicesImplServiceSoapBinding">
            <soap:address
                    location="http://suapsuecross.collaudoavmtb/cross-
ws/services/CrossServices" />
        </wsdl:port>
    </wsdl:service>
</wsdl:definitions>
```

WSDL servizio CrossWSService
```xml
<wsdl:definitions
        xmlns:apachesoap="http://xml.apache.org/xml-soap"
```

```
xmlns:impl="http://webservice.backend.people.it/"
xmlns:intf="http://webservice.backend.people.it/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://webservice.backend.people.it/">
<wsdl:types>
      <schema xmlns="http://www.w3.org/2001/XMLSchema"
            xmlns:apachesoap="http://xml.apache.org/xml-soap"
            xmlns:impl="http://webservice.backend.people.it/"
            xmlns:intf="http://webservice.backend.people.it/"
            xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
            xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            elementFormDefault="qualified"
            targetNamespace="http://webservice.backend.people.it/">
            <element name="process">
                  <complexType>
                        <sequence>
                              <element name="data" type="xsd:string" />
                        </sequence>
                  </complexType>
            </element>
            <element name="processResponse">
                  <complexType>
                        <sequence>
                              <element name="processReturn" type="xsd:string" />
                        </sequence>
                  </complexType>
            </element>
      </schema>
</wsdl:types>
<wsdl:message name="processRequest">
      <wsdl:part element="impl:process" name="parameters">
      </wsdl:part>
</wsdl:message>
<wsdl:message name="processResponse">
      <wsdl:part element="impl:processResponse" name="parameters">
      </wsdl:part>
</wsdl:message>
<wsdl:portType name="CrossWSService">
      <wsdl:operation name="process">
            <wsdl:input message="impl:processRequest"
                  name="processRequest">
            </wsdl:input>
            <wsdl:output message="impl:processResponse"
                  name="processResponse">
            </wsdl:output>
      </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CrossWSServiceSoapBinding"
      type="impl:CrossWSService">
      <wsdlsoap:binding style="document"
            transport="http://schemas.xmlsoap.org/soap/http" />
      <wsdl:operation name="process">
            <wsdlsoap:operation soapAction="process" />
            <wsdl:input name="processRequest">
                  <wsdlsoap:body use="literal" />
            </wsdl:input>
            <wsdl:output name="processResponse">
                  <wsdlsoap:body use="literal" />
```

```xml
                </wsdl:output>
            </wsdl:operation>
        </wsdl:binding>
        <wsdl:service name="CrossWSServiceService">
            <wsdl:port binding="impl:CrossWSServiceSoapBinding"
                    name="CrossWSService">
                <wsdlsoap:address
                        location="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/CrossService" />
            </wsdl:port>
        </wsdl:service>
</wsdl:definitions>
```

WSDL servizio PeoplePratiche

```xml
<wsdl:definitions
        xmlns:apachesoap="http://xml.apache.org/xml-soap"
        xmlns:impl="http://webservice.backend.people.it/"
        xmlns:intf="http://webservice.backend.people.it/"
        xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
        xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
        targetNamespace="http://webservice.backend.people.it/">
        <wsdl:types>
            <schema xmlns="http://www.w3.org/2001/XMLSchema"
                    xmlns:apachesoap="http://xml.apache.org/xml-soap"
                    xmlns:impl="http://webservice.backend.people.it/"
                    xmlns:intf="http://webservice.backend.people.it/"
                    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
                    xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
                    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                    elementFormDefault="qualified"
                    targetNamespace="http://webservice.backend.people.it/">
                <element name="process">
                    <complexType>
                        <sequence>
                            <element name="data" type="xsd:string" />
                        </sequence>
                    </complexType>
                </element>
                <element name="processResponse">
                    <complexType>
                        <sequence>
                            <element name="processReturn" type="xsd:string" />
                        </sequence>
                    </complexType>
                </element>
            </schema>
        </wsdl:types>
        <wsdl:message name="processRequest">
            <wsdl:part element="impl:process" name="parameters">
            </wsdl:part>
        </wsdl:message>
        <wsdl:message name="processResponse">
            <wsdl:part element="impl:processResponse" name="parameters">
            </wsdl:part>
        </wsdl:message>
        <wsdl:portType name="PeoplePratiche">
            <wsdl:operation name="process">
                <wsdl:input message="impl:processRequest"
```

```xml
                        name="processRequest">
                </wsdl:input>
                <wsdl:output message="impl:processResponse"
                        name="processResponse">
                </wsdl:output>
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="PeoplePraticheSoapBinding"
            type="impl:PeoplePratiche">
            <wsdlsoap:binding style="document"
                    transport="http://schemas.xmlsoap.org/soap/http" />
            <wsdl:operation name="process">
                    <wsdlsoap:operation soapAction="process" />
                    <wsdl:input name="processRequest">
                            <wsdlsoap:body use="literal" />
                    </wsdl:input>
                    <wsdl:output name="processResponse">
                            <wsdlsoap:body use="literal" />
                    </wsdl:output>
            </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="PeoplePraticheService">
            <wsdl:port binding="impl:PeoplePraticheSoapBinding"
                    name="PeoplePratiche">
                    <wsdlsoap:address
                            location="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/PeoplePraticheService" />
            </wsdl:port>
    </wsdl:service>
</wsdl:definitions>
```

WSDL servizio RicercaPratiche
```xml
<wsdl:definitions
    xmlns:ns1="http://schemas.xmlsoap.org/soap/http"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:tns="http://ricercapratiche.cxf.webservices.cross.wego.it/"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    name="RicercaPraticheService"
    targetNamespace="http://ricercapratiche.cxf.webservices.cross.wego.it/">
    <wsdl:types>
            <xsd:schema
                    xmlns:tns="http://ricercapratiche.cxf.webservices.cross.wego.it/"
                    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                    attributeFormDefault="unqualified" elementFormDefault="qualified"

    targetNamespace="http://ricercapratiche.cxf.webservices.cross.wego.it/">
                    <xsd:element name="invoke" nillable="true"
                            type="xsd:anyType" />
                    <xsd:element name="invokeResponse" nillable="true"
                            type="xsd:anyType" />
            </xsd:schema>
    </wsdl:types>
    <wsdl:message name="invoke">
            <wsdl:part element="tns:invoke" name="invoke">
            </wsdl:part>
    </wsdl:message>
    <wsdl:message name="invokeResponse">
            <wsdl:part element="tns:invokeResponse"
                    name="invokeResponse">
```

```
            </wsdl:part>
        </wsdl:message>
        <wsdl:portType name="RicercaPratiche">
            <wsdl:operation name="invoke">
                <wsdl:input message="tns:invoke" name="invoke">
                </wsdl:input>
                <wsdl:output message="tns:invokeResponse"
                        name="invokeResponse">
                </wsdl:output>
            </wsdl:operation>
        </wsdl:portType>
        <wsdl:binding name="RicercaPraticheServiceSoapBinding"
                type="tns:RicercaPratiche">
            <soap:binding style="document"
                    transport="http://schemas.xmlsoap.org/soap/http" />
            <wsdl:operation name="invoke">
                <soap:operation soapAction="" style="document" />
                <wsdl:input name="invoke">
                    <soap:body use="literal" />
                </wsdl:input>
                <wsdl:output name="invokeResponse">
                    <soap:body use="literal" />
                </wsdl:output>
            </wsdl:operation>
        </wsdl:binding>
        <wsdl:service name="RicercaPraticheService">
            <wsdl:port binding="tns:RicercaPraticheServiceSoapBinding"
                    name="RicercaPratichePort">
                <soap:address
                        location="https://boss.avmtb.rsr.rupar.puglia.it/cross-
ws/services/RicercaPraticheService" />
            </wsdl:port>
        </wsdl:service>
</wsdl:definitions>
```

5. Schema XSD pratiche SUE SUAP

Le pratiche inserite nella piattaforma OpenCross devono supportare lo schema xsd seguente, al fine di poter trasformare le pratiche pervenute in oggetti xml.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.wego.it/cross"
        targetNamespace="http://www.wego.it/cross" elementFormDefault="qualified">

    <xs:element name="pratica" type="pratica"/>

    <xs:complexType name="anagrafica">
        <xs:sequence>
            <xs:element minOccurs="1" name="counter" type="xs:integer"/>
            <xs:element minOccurs="0" name="confermata" type="xs:string"/>
            <xs:element minOccurs="0" name="da_rubrica" type="xs:string"/>
            <xs:element minOccurs="0" name="id_anagrafica" type="xs:integer"/>
            <xs:element minOccurs="1" name="tipo_anagrafica" type="xs:string"/>
```

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```xml
<xs:element minOccurs="0" name="variante_anagrafica" type="xs:string"/>
<xs:element minOccurs="0" name="cognome" type="xs:string"/>
<xs:element minOccurs="0" name="denominazione" type="xs:string"/>
<xs:element minOccurs="0" name="nome" type="xs:string"/>
<xs:element minOccurs="0" name="codice_fiscale" type="xs:string"/>
<xs:element minOccurs="0" name="partita_iva" type="xs:string"/>
<xs:element minOccurs="0" name="flg_individuale" type="xs:string"/>
<xs:element minOccurs="0" name="data_nascita" type="xs:date"/>
<xs:element minOccurs="0" name="id_cittadinanza" type="xs:integer"/>
<xs:element minOccurs="0" name="cod_cittadinanza" type="xs:string"/>
<xs:element minOccurs="0" name="des_cittadinanza" type="xs:string"/>
<xs:element minOccurs="0" name="id_nazionalita" type="xs:integer"/>
```

```xml
                <xs:element minOccurs="0" name="cod_nazionalita" type="xs:string"/>
                <xs:element minOccurs="0" name="des_nazionalita" type="xs:string"/>
                <xs:element minOccurs="0" name="id_comune_nascita" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_comune_nascita" type="xs:string"/>
                <xs:element minOccurs="0" name="id_provincia_nascita" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_provincia_nascita" type="xs:string"/>
                <xs:element minOccurs="0" name="id_stato_nascita" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_stato_nascita" type="xs:string"/>
                <xs:element minOccurs="0" name="localita_nascita" type="xs:string"/>
                <xs:element minOccurs="0" name="sesso" type="xs:string"/>
                <xs:element minOccurs="0" name="id_tipo_collegio" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_tipo_collegio" type="xs:string"/>
                <xs:element minOccurs="0" name="numero_iscrizione" type="xs:string"/>
                <xs:element minOccurs="0" name="data_iscrizione" type="xs:date"/>
                <xs:element minOccurs="0" name="id_provincia_iscrizione"
type="xs:integer"/>
                <xs:element minOccurs="0" name="des_provincia_iscrizione"
type="xs:string"/>
                <xs:element minOccurs="0" name="id_provincia_cciaa" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_provincia_cciaa" type="xs:string"/>
                <xs:element minOccurs="0" name="flg_attesa_iscrizione_ri"
type="xs:boolean"/>
                <xs:element minOccurs="0" name="flg_obbligo_iscrizione_ri"
type="xs:boolean"/>
                <xs:element minOccurs="0" name="data_iscrizione_ri" type="xs:date"/>
                <xs:element minOccurs="0" name="n_iscrizione_ri" type="xs:string"/>
                <xs:element minOccurs="0" name="flg_attesa_iscrizione_rea"
type="xs:boolean"/>
                <xs:element minOccurs="0" name="data_iscrizione_rea" type="xs:date"/>
                <xs:element minOccurs="0" name="n_iscrizione_rea" type="xs:string"/>
                <xs:element minOccurs="0" name="id_forma_giuridica" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_forma_giuridica" type="xs:string"/>
                <xs:element minOccurs="0" name="recapiti" type="recapiti"/>
            </xs:sequence>
        </xs:complexType>

        <xs:complexType name="recapiti">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="unbounded" name="recapito"
type="recapito"/>
            </xs:sequence>
        </xs:complexType>

        <xs:complexType name="recapito">
            <xs:sequence>
                <xs:element minOccurs="1" name="counter" type="xs:integer"/>
                <xs:element minOccurs="0" name="id_recapito" type="xs:integer"/>
                <xs:element minOccurs="0" name="presso" type="xs:string"/>
                <xs:element minOccurs="0" name="id_comune" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_comune" type="xs:string"/>
                <xs:element minOccurs="0" name="localita" type="xs:string"/>
                <xs:element minOccurs="0" name="id_provincia" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_provincia" type="xs:string"/>
                <xs:element minOccurs="0" name="id_stato" type="xs:integer"/>
                <xs:element minOccurs="0" name="des_stato" type="xs:string"/>
                <xs:element minOccurs="0" name="id_dug" type="xs:integer"/>
                <xs:element minOccurs="0" name="indirizzo" type="xs:string"/>
                <xs:element minOccurs="0" name="codice_via" type="xs:string"/>
                <xs:element minOccurs="0" name="n_civico" type="xs:string"/>
                <xs:element minOccurs="0" name="codice_civico" type="xs:string"/>
```

```xml
            <xs:element minOccurs="0" name="interno_numero" type="xs:string"/>
            <xs:element minOccurs="0" name="interno_lettera" type="xs:string"/>
            <xs:element minOccurs="0" name="interno_scala" type="xs:string"/>
            <xs:element minOccurs="0" name="lettera" type="xs:string"/>
            <xs:element minOccurs="0" name="colore" type="xs:string"/>
            <xs:element minOccurs="0" name="cap" type="xs:string"/>
            <xs:element minOccurs="0" name="casella_postale" type="xs:string"/>
            <xs:element minOccurs="0" name="altre_info_indirizzo" type="xs:string"/>
            <xs:element minOccurs="0" name="telefono" type="xs:string"/>
            <xs:element minOccurs="0" name="cellulare" type="xs:string"/>
            <xs:element minOccurs="0" name="fax" type="xs:string"/>
            <xs:element minOccurs="0" name="email" type="xs:string"/>
            <xs:element minOccurs="0" name="pec" type="xs:string"/>
            <xs:element minOccurs="0" name="id_tipo_indirizzo" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_tipo_indirizzo" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="dati_catastali">
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="unbounded" name="immobile"
type="immobile"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="immobile">
        <xs:sequence>
            <xs:element minOccurs="1" name="counter" type="xs:integer"/>
            <xs:element minOccurs="0" name="id_immobile" type="xs:integer"/>
            <xs:element minOccurs="0" name="cod_immobile" type="xs:string"/>
            <xs:element minOccurs="0" name="id_tipo_sistema_catastale"
type="xs:integer"/>
            <xs:element minOccurs="0" name="des_tipo_sistema_catastale"
type="xs:string"/>
            <xs:element minOccurs="0" name="sezione" type="xs:string"/>
            <xs:element minOccurs="0" name="id_tipo_unita" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_tipo_unita" type="xs:string"/>
            <xs:element minOccurs="0" name="foglio" type="xs:string"/>
            <xs:element minOccurs="0" name="mappale" type="xs:string"/>
            <xs:element minOccurs="0" name="id_tipo_particella" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_tipo_particella" type="xs:string"/>
            <xs:element minOccurs="0" name="estensione_particella" type="xs:string"/>
            <xs:element minOccurs="0" name="subalterno" type="xs:string"/>
            <xs:element minOccurs="0" name="latitudine" type="xs:string"/>
            <xs:element minOccurs="0" name="longitudine" type="xs:string"/>
            <xs:element minOccurs="0" name="id_comune" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_comune" type="xs:string"/>
            <xs:element minOccurs="0" name="id_provincia" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_provincia" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="indirizzi_intervento">
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="unbounded" name="indirizzo_intervento"
type="indirizzo_intervento"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="indirizzo_intervento">
```

```xml
        <xs:sequence>
            <xs:element minOccurs="1" name="counter" type="xs:integer"/>
            <xs:element minOccurs="0" name="id_indirizzo_intervento"
type="xs:integer"/>
            <xs:element minOccurs="0" name="id_comune" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_comune" type="xs:string"/>
            <xs:element minOccurs="0" name="localita" type="xs:string"/>
            <xs:element minOccurs="0" name="id_provincia" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_provincia" type="xs:string"/>
            <xs:element minOccurs="0" name="id_dug" type="xs:integer"/>
            <xs:element minOccurs="0" name="indirizzo" type="xs:string"/>
            <xs:element minOccurs="0" name="civico" type="xs:string"/>
            <xs:element minOccurs="0" name="altre_informazioni_indirizzo"
type="xs:string"/>
            <xs:element minOccurs="0" name="cap" type="xs:string"/>
            <xs:element minOccurs="0" name="codice_via" type="xs:string"/>
            <xs:element minOccurs="0" name="codice_civico" type="xs:string"/>
            <xs:element minOccurs="0" name="interno_numero" type="xs:string"/>
            <xs:element minOccurs="0" name="interno_lettera" type="xs:string"/>
            <xs:element minOccurs="0" name="interno_scala" type="xs:string"/>
            <xs:element minOccurs="0" name="lettera" type="xs:string"/>
            <xs:element minOccurs="0" name="colore" type="xs:string"/>
            <xs:element minOccurs="0" name="latitudine" type="xs:string"/>
            <xs:element minOccurs="0" name="longitudine" type="xs:string"/>
            <xs:element minOccurs="0" name="dato_esteso_1" type="xs:string"/>
            <xs:element minOccurs="0" name="dato_esteso_2" type="xs:string"/>
            <xs:element minOccurs="0" name="piano" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="anagrafiche">
        <xs:sequence>
            <xs:element minOccurs="1" name="anagrafica" type="anagrafica"/>
            <xs:element minOccurs="0" name="notifica" type="recapito"/>
            <xs:element minOccurs="0" name="id_tipo_ruolo" type="xs:integer"/>
            <xs:element minOccurs="0" name="cod_tipo_ruolo" type="xs:string"/>
            <xs:element minOccurs="0" name="des_tipo_ruolo" type="xs:string"/>
            <xs:element minOccurs="0" name="data_inizio_validita" type="xs:date"/>
            <xs:element minOccurs="0" name="id_tipo_qualifica" type="xs:integer"/>
            <xs:element minOccurs="0" name="des_tipo_qualifica" type="xs:string"/>
            <xs:element minOccurs="0" name="descrizione_titolarita" type="xs:string"/>
            <xs:element minOccurs="0" name="assenso_uso_pec" type="xs:boolean"/>
            <xs:element minOccurs="0" name="pec" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="pratica">
        <xs:sequence>
            <xs:element minOccurs="0" name="id_pratica" type="xs:integer">
                <xs:annotation>
                    <xs:documentation>Identificativo pratica. Viene utilizzato nel ws
di creazione di un evento</xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element minOccurs="1" maxOccurs="1" name="id_procedimento_suap"
type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="des_procedimento_suap"
type="xs:string"/>
            <xs:element minOccurs="0" name="identificativo_pratica" type="xs:string"/>
            <xs:element minOccurs="0" name="identificativo_esterno" type="xs:string"/>
```

```xml
            <xs:element minOccurs="0" name="oggetto" type="xs:string"/>
            <xs:element minOccurs="0" name="responsabile_procedimento"
type="xs:string"/>
            <xs:element minOccurs="0" name="istruttore" type="xs:string"/>
            <xs:element minOccurs="0" name="termini_evasione_pratica"
type="xs:integer"/>
            <xs:element minOccurs="0" name="notifica" type="recapito"/>
            <xs:element minOccurs="0" name="cod_catastale_comune" type="xs:string"/>
            <xs:element minOccurs="0" name="des_comune" type="xs:string"/>
            <!-- Identifica lo sportello a cui viene presentata la pratica e deve
essere censito nella tabella enti di cross -->
            <xs:element minOccurs="0" name="id_ente" type="xs:integer"/>
            <xs:element minOccurs="0" name="cod_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="des_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="des_comune_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="indirizzo_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="cap_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="fax_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="email_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="pec_ente" type="xs:string"/>
            <xs:element minOccurs="0" name="telefono_ente" type="xs:string"/>
            <!-- Indica il riferimento alle pratiche protocollate manualmente e
popolate tramite quartz-->
            <xs:element minOccurs="0" name="id_protocollo_manuale" type="xs:integer"/>
            <xs:element minOccurs="0" name="registro" type="xs:string"/>
            <xs:element minOccurs="0" name="protocollo" type="xs:string"/>
            <xs:element minOccurs="0" name="fascicolo" type="xs:string"/>
            <xs:element minOccurs="0" name="anno" type="xs:string"/>
            <xs:element minOccurs="0" name="data_protocollo" type="xs:date"/>
            <xs:element minOccurs="0" name="data_ricezione" type="xs:date"/>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="anagrafiche"
type="anagrafiche"/>
            <xs:element minOccurs="0" name="dati_catastali" type="dati_catastali"/>
            <xs:element minOccurs="0" name="indirizzi_intervento"
type="indirizzi_intervento"/>
            <xs:element minOccurs="1" name="procedimenti" type="procedimenti"/>
            <xs:element minOccurs="0" name="scadenze" type="scadenze"/>
            <xs:element minOccurs="0" name="allegati" type="allegati"/>
            <xs:element minOccurs="0" name="eventi" type="eventi"/>
            <xs:element minOccurs="0" maxOccurs="1" name="evento_corrente"
type="evento"/>
            <xs:element minOccurs="0" name="id_stato_pratica" type="xs:integer"/>
            <xs:element minOccurs="0" name="cod_stato_pratica" type="xs:string"/>
            <xs:element minOccurs="0" name="des_stato_pratica" type="xs:string"/>
            <xs:element minOccurs="0" name="data_chiusura" type="xs:date"/>
            <xs:element minOccurs="0" name="dati_da_front" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="eventi">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="evento"
type="evento"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="evento">
        <xs:sequence>
            <xs:element minOccurs="0" name="id_pratica_evento" type="xs:integer"/>
            <xs:element minOccurs="0" name="id_evento" type="xs:integer"/>
```

```xml
                    <xs:element minOccurs="0" name="descrizione_evento" type="xs:string"/>
                    <xs:element minOccurs="0" name="data_evento" type="xs:date"/>
                    <xs:element minOccurs="0" name="id_utente" type="xs:integer"/>
                    <xs:element minOccurs="0" name="nome" type="xs:string"/>
                    <xs:element minOccurs="0" name="cognome" type="xs:string"/>
                    <xs:element minOccurs="0" name="note" type="xs:string"/>
                    <xs:element minOccurs="0" name="numero_protocollo" type="xs:string"/>
                    <xs:element minOccurs="0" name="verso">
                        <xs:simpleType>
                            <xs:restriction base="xs:string">
                                <xs:enumeration value="I"/>
                                <xs:enumeration value="O"/>
                            </xs:restriction>
                        </xs:simpleType>
                    </xs:element>
                    <xs:element minOccurs="0" name="visibilita_cross">
                        <xs:simpleType>
                            <xs:restriction base="xs:string">
                                <xs:enumeration value="S"/>
                                <xs:enumeration value="N"/>
                            </xs:restriction>
                        </xs:simpleType>
                    </xs:element>
                    <xs:element minOccurs="0" name="visibilita_utente">
                        <xs:simpleType>
                            <xs:restriction base="xs:string">
                                <xs:enumeration value="S"/>
                                <xs:enumeration value="N"/>
                            </xs:restriction>
                        </xs:simpleType>
                    </xs:element>
                    <xs:element minOccurs="0" name="allegati" type="allegati"/>
                </xs:sequence>
            </xs:complexType>

            <xs:complexType name="procedimenti">
                <xs:sequence>
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="procedimento"
type="procedimento"/>
                </xs:sequence>
            </xs:complexType>

            <xs:complexType name="procedimento">
                <xs:sequence>
                    <xs:element minOccurs="0" name="id_procedimento" type="xs:int"/>
                    <xs:element minOccurs="0" name="cod_procedimento" type="xs:string"/>
                    <xs:element minOccurs="0" name="termini" type="xs:integer"/>
                    <xs:element minOccurs="0" name="des_procedimento" type="xs:string"/>
                    <xs:element minOccurs="0" name="cod_lang" type="xs:string"/>
                    <xs:element minOccurs="0" name="id_ente_destinatario" type="xs:integer"/>
                    <!-- In A&C inserire il valore codiceDestinatario del procedimento. Deve
essere censito nella tabella enti di cross -->
                    <xs:element minOccurs="0" name="cod_ente_destinatario" type="xs:string"/>
                    <xs:element minOccurs="0" name="des_ente_destinatario" type="xs:string"/>
                </xs:sequence>
            </xs:complexType>

            <xs:complexType name="allegati">
                <xs:sequence>
```

```xml
                <xs:element minOccurs="1" maxOccurs="unbounded" name="allegato"
type="allegato"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="allegato">
        <xs:sequence>
            <xs:element minOccurs="0" name="riepilogoPratica">
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:enumeration value="S"/>
                        <xs:enumeration value="N"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
            <xs:element minOccurs="0" name="id_allegato" type="xs:integer"/>
            <xs:element minOccurs="0" name="descrizione" type="xs:string"/>
            <xs:element minOccurs="0" name="nome_file" type="xs:string"/>
            <xs:element minOccurs="0" name="tipo_file" type="xs:string"/>
            <xs:element minOccurs="0" name="path_file" type="xs:string"/>
            <xs:element minOccurs="0" name="id_file_esterno" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
    <!--^^CS AGGIUNTA-->
    <xs:complexType name="scadenze">
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="unbounded" name="scadenza"
type="scadenza"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="scadenza">
        <xs:sequence>
            <xs:element minOccurs="0" name="id_scadenza" type="xs:integer"/>
            <xs:element minOccurs="0" name="id_pratica" type="xs:integer"/>
            <xs:element minOccurs="0" name="data_scadenza" type="xs:date"/>
            <xs:element minOccurs="0" name="id_ana_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="des_ana_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="flg_ana_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="id_stato_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="des_stato_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="grp_stato_scadenza" type="xs:string"/>
            <xs:element minOccurs="0" name="data_fine_scadenza" type="xs:date"/>
            <xs:element minOccurs="0" name="data_inizio_scadenza" type="xs:date"/>
            <xs:element minOccurs="0" name="id_pratica_evento" type="xs:integer"/>
            <xs:element minOccurs="0" name="giorni_teorici_scadenza"
type="xs:integer"/>
            <xs:element minOccurs="0" name="descrizione" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:schema>
```

6. Schema XSD Pratiche SUAP-ENTE per comunicazione con enti esterni

Nell'ambito della comunicazione con enti esterni, viene composto un file xml, vedi paragrafo 4.10 del documento "MAN_UTENTE_suap_sue_BACK-OFFICE.pdf" che segue le regole del seguente descrittore XSD del modello di cooperazione tra SUAP e altre pubbliche amministrazioni SUAP-ente-1.1.0.xsd) come da specifiche tecniche per il regolamento di cui all'art. 38 del D.L. 112/2008.

```
?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSpy v2011 rel. 2 (http://www.altova.com) by TeaM DJiNN (TeaM DJiNN) -
->
<xs:schema xmlns:ps="http://www.impresainungiorno.gov.it/schema/suap/pratica"
      xmlns:se="http://www.impresainungiorno.gov.it/schema/suap/ente"
      xmlns:pi="http://www.impresainungiorno.gov.it/schema/base"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:wsi="http://ws-i.org/profiles/basic/1.1/xsd"
      targetNamespace="http://www.impresainungiorno.gov.it/schema/suap/ente"
      elementFormDefault="unqualified" attributeFormDefault="unqualified"
      version="1.1.0">
      <xs:import namespace="http://www.impresainungiorno.gov.it/schema/base"
schemaLocation="impresainungiorno.gov_tipi_elementari-1.0.0.xsd"/>
      <xs:import namespace="http://www.impresainungiorno.gov.it/schema/suap/pratica"
schemaLocation="pratica_suap-2.0.0.xsd"/>
      <xs:import namespace="http://ws-i.org/profiles/basic/1.1/xsd"
schemaLocation="swaref.xsd"/>
      <!--
        Modello di cooperazione tra le altre pubbliche amministrazioni (ente) e lo
sportello SUAP competente
    -->
      <xs:element name="cooperazione-ente-suap" type="se:CooperazioneEnteSUAP"/>
      <!--
        Modello di cooperazione tra lo sportello SUAP competente e le altre pubbliche
amministrazioni (ente)
    -->
      <xs:element name="cooperazione-suap-ente" type="se:CooperazioneSUAPEnte"/>
      <!--

        Definizione del messaggio di cooperazione tra pubbliche amministrazioni e SUAP
relativo ad una pratica SUAP - Art. 10 Allegato tecnico DPR160/2010 - Specifiche tecniche
per la cooperazione

    -->
      <xs:complexType name="CooperazioneEnteSUAP">
            <xs:sequence>
                  <xs:element name="info-schema">
                        <xs:complexType>
                              <xs:attribute name="versione" use="required">
                                    <xs:simpleType>
                                          <xs:restriction base="xs:string">
                                                <xs:pattern value="(\d+.)?\d+.\d+(-
beta)?"/>
                                          </xs:restriction>
                                    </xs:simpleType>
                              </xs:attribute>
                              <xs:attribute name="data" type="xs:date" use="required"/>
```

```xml
                        </xs:complexType>
                </xs:element>
                <xs:element name="intestazione">
                        <xs:complexType>
                                <xs:sequence>
                                        <xs:element name="ente-mittente"
type="ps:EstremiEnte"/>
                                        <xs:element name="suap-competente"
type="ps:EstremiSuap"/>
                                        <xs:group ref="se:RiferimentoPratica"/>
                                        <xs:group ref="se:ComunicazioneEnte"/>
                                </xs:sequence>
                                <xs:attribute name="progressivo" type="xs:int"/>
                                <xs:attribute name="totale" type="xs:int"/>
                        </xs:complexType>
                </xs:element>
                <xs:element name="allegato" type="se:AllegatoCooperazione"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
   </xs:complexType>
   <!--

        Definizione del messaggio di cooperazione tra SUAP e pubbliche amministrazioni
relativo ad una pratica SUAP - Art. 10 Allegato tecnico DPR160/2010 - Specifiche tecniche
per la cooperazione

    -->
    <xs:complexType name="CooperazioneSUAPEnte">
        <xs:sequence>
                <xs:element name="info-schema">
                        <xs:complexType>
                                <xs:attribute name="versione" use="required">
                                        <xs:simpleType>
                                                <xs:restriction base="xs:string">
                                                        <xs:pattern value="(\d+.)?\d+.\d+(-
beta)?"/>
                                                </xs:restriction>
                                        </xs:simpleType>
                                </xs:attribute>
                                <xs:attribute name="data" type="xs:date" use="required"/>
                        </xs:complexType>
                </xs:element>
                <xs:element name="intestazione">
                        <xs:complexType>
                                <xs:sequence>
                                        <xs:element name="suap-competente"
type="ps:EstremiSuap"/>
                                        <xs:element name="ente-destinatario"
type="ps:EstremiEnte" maxOccurs="unbounded"/>
                                        <xs:group ref="se:RiferimentoPratica"/>
                                        <xs:group ref="se:ComunicazioneEnte"/>
                                </xs:sequence>
                                <xs:attribute name="progressivo" type="xs:int"/>
                                <xs:attribute name="totale" type="xs:int"/>
                        </xs:complexType>
                </xs:element>
                <xs:element name="allegato" type="se:AllegatoCooperazione"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
```

```xml
        </xs:complexType>
        <!--

          Definizione dei componenti della comunicazione di Cooperazione

    -->
    <xs:group name="ComunicazioneEnte">
            <xs:sequence>
                    <xs:element name="oggetto-comunicazione"
type="se:OggettoCooperazione"/>
                    <xs:element name="testo-comunicazione" type="pi:Stringa"
minOccurs="0"/>
                    <xs:element name="protocollo" type="ps:ProtocolloSUAP"/>
            </xs:sequence>
    </xs:group>
    <!--
            Testo della comunicazione
    -->
    <xs:complexType name="OggettoCooperazione">
            <xs:simpleContent>
                    <xs:extension base="pi:Stringa">
                            <xs:attribute name="tipo-cooperazione" type="pi:Stringa">
                                    <xs:annotation>
                                            <xs:documentation>Il tipo di cooperazione puo'
assumere i seguenti valori:
                                                "condivisione" - primo invio della pratica
all'ente
                                                "conferenza-servizi" - convocazione della
conferenza dei servizi
                                                "richiesta-integrazione" - richiesta di
integrazione documentale
                                                "integrazione-documentale" - invio
dell'integrazione documentale richiesta
                                                "rilascio-provvedimento" - rilascio del
provvedimento finale
                                                "altro" - comunicazione generica
                                            </xs:documentation>
                                    </xs:annotation>
                            </xs:attribute>
                    </xs:extension>
            </xs:simpleContent>
    </xs:complexType>
    <!--
            Dati della pratica originale
    -->
    <xs:group name="RiferimentoPratica">
            <xs:sequence>
                    <xs:element name="codice-pratica" type="pi:Stringa">
                            <xs:annotation>
                                    <xs:documentation>Questo elemento, se presente, e' un
codice identificativo univoco della pratica valido
                        nel dominio del SUAP competente.
                        Si suggerisce di utilizzare la codifica dello stardard naming dei
file CF-GGMMAAAA-HHMM.NNN
                        Es: DPRTNT00A01A012T-08072010-1730
                    </xs:documentation>
                            </xs:annotation>
                    </xs:element>
                    <xs:element name="impresa" type="ps:AnagraficaImpresa"/>
```

```xml
                    <xs:element name="oggetto-pratica" type="ps:OggettoComunicazione"/>
                    <xs:element name="protocollo-pratica-suap" type="ps:ProtocolloSUAP"/>
                    <xs:element name="protocollo-ri" type="ps:ProtocolloRI"
minOccurs="0"/>
            </xs:sequence>
        </xs:group>
        <!--
            Allegato generico - permette qualunque nome e controlla solo il tipo di
allegato
    -->
    <xs:complexType name="AllegatoCooperazione">
            <xs:complexContent>
                    <xs:extension base="ps:BaseAllegatoSUAP">
                            <xs:sequence>
                                    <xs:element minOccurs="0" name="embedded-file-ref"
type="wsi:swaRef">
                                            <xs:annotation>
                                                    <xs:documentation>
                                                            N.B. Se la trasmissione avviene
attraveso SPCOOP, lo swaref non
                                                            funionera', in quanto lo standard di
comunicazione SPCOOP e'
                                                            SOAP-with-Attachments
                                                    </xs:documentation>
                                            </xs:annotation>
                                    </xs:element>
                            </xs:sequence>
                            <xs:attribute name="nome-file"
type="se:TipoFileAllegatoCooperazione"
                                    use="required" />
                            <xs:attribute name="cod" type="pi:Stringa" />
                    </xs:extension>
            </xs:complexContent>
    </xs:complexType>
    <!--
    -->
    <xs:simpleType name="TipoFileAllegatoCooperazione">
            <xs:annotation>
                    <xs:documentation>
            CF-GGMMAAAA-HHMM.NNN.PDF.P7M   o   CF-GGMMAAAA-HHMM.NNN.PDF
            Es: DPRTNT00A01A012T-08072010-1733.01243.pdf.p7m
            Formati ammessi: pdf; pdf.p7m; xml; dwf; dwf.p7m; svg; svg.p7m; jpg; jpg.p7m
        </xs:documentation>
            </xs:annotation>
            <xs:restriction base="xs:string">
                    <xs:pattern value="[\.\dA-Za-z\-
]*\.(([Pp][Dd][Ff])|([Pp][Dd][Ff]\.[Pp]7[Mm])|([Xx][Mm][Ll])|([Dd][Ww][Ff])|([Dd][Ww][Ff]
\.[Pp]7[Mm])|([Ss][Vv][Gg])|([Ss][Vv][Gg]\.[Pp]7[Mm])|([Jj][Pp][Gg])|([Jj][Pp][Gg]\.[Pp]7
[Mm]))"/>
            </xs:restriction>
    </xs:simpleType>
</xs:schema>
```

7. Esempio di ciclo di vita di una richiesta di funzionalità web

I seguenti passaggi servono per esplicitare i passaggi di implementazione, necessari ad effettuare una modifica di una funzionalità web, e mostrano l'interazione delle componenti architetturali.
Architettura tipica BO:

PAGINA -> CONTROLLER -> ACTION -> SERVICE -> DAO

Esempio funzionamento pagina di ricerca e griglie:

Si parte dalla jsp in cui si vuol effettuare la modifica: per modificare il menù andare in:

\backoffice\cross\cross-web\src\main\webapp\themes\default\views\main\header.jsp

Il css che è agganciato al menù è:

\backoffice\cross\cross-web\src\main\webapp\themes\default\css\main.css

Il properties che contiene la label del menu è:

\backoffice\cross\cross-web\src\main\resources\locales\messages-menu.properties

Si è scelto di operare nel Controller:

\backoffice\cross\cross-web\src\main\java\it\wego\cross\controller\Pratiche.java

La gestione della redirect dopo la fine del controller viene fatta al ready della pagina di atterraggio e quindi viene rimbalzato il flusso in un nuovo controller che popolerà griglia e dati di un eventuale filtro.

Nel dettaglio questa redirect funziona così:

nella pagina gestione.jsp in riga 66 c'è il metodo getUrl (Javascript) che costruisce l'url mappato nel controller partendo dall' url corrente e sostituendo gestisci.htm con gestisci /ajax.htm

In questo metodo "AJAX" si deve creare il Json secondo la struttura della griglia (definita in un file .js) per popolare la table di frontend presente nella pagina gestione.jsp

Requisito aggiunta campo riepilogo - flusso

Dalla pagina di griglia si va nel dettaglio della singola pratica:

la tiles corrispondente è

\backoffice\cross\cross-web\src\main\webapp\themes\default\views\main\body\pratiche\views.xml

name = pratica_dettaglio contiene tutte le pagine di riferimento per il dettaglio: body + tab

La pagina corrispondente che contiene il riepilogo della pratica è

\backoffice\cross\cross-web\src\main\webapp\themes\default\views\main\body\pratiche\dettaglio.jsp