

Profil WFS

Diffusion de données d'urbanisme et servitudes d'utilité publique

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Glossaire

MEDDE	Ministère de l'Écologie, du Développement Durable et de l'Énergie
METL	Ministère de l'Égalité des Territoires et du Logement
DHUP	Direction de l'Habitat, de l'Urbanisme et des Paysages
IGN	Institut National de l'Information Géographique et Forestière
GpU	Géo-portail de l'Urbanisme
GPP	Géoportail national mis en œuvre par l'IGN
EaaS	Entrepôt as a Service, entrepôt du GPP accessible sous la forme d'un service
PCI	Plan Cadastral Informatisé
PLU	Plan Local d'Urbanisme
POS	Plan d'Occupation du Sol
DU	Document d'Urbanisme. Ce terme englobe les PLU, les POS et les cartes communales.
CC	Carte communale
RNU	Règlement National d'Urbanisme (« est RNU » signifie pour le GpU qu'un DU n'est pas obligatoire sur la commune)
SCOT	Schéma de COhérence Territoriale
SUP	Servitude d'Utilité Publique
IDG	Infrastructure de Données Géographiques
GEOADS	Outil interne au MEDDE d'instruction des dossiers PLU et SUP
Géo-IDE	Outils de gestion de données, de métadonnées, de visualisation et de diffusion des données. 3 composantes : Géo-Ide Base, Géo-Ide catalogue, Géo-Idecarto
INSPIRE	Directive européenne : INfrastructure for SPatialInfoRmation in Europe.
OGC	Open Geospatial Consortium : organisme de standardisation de l'information géographique.
CSW	Catalogue Services for the Web, standard défini par l'OGC
WMS	Web Map Service, standard défini par l'OGC
WFS	Web Feature Service, standard défini par l'OGC

I. Introduction

I.1. Objectif du document

L'alimentation du Géoportail de l'Urbanisme en données d'urbanisme et servitudes d'utilité publique est prévue de différentes manières : téléversement, flux ATOM et flux WFS. Ce profil définit spécifiquement les exigences et recommandations pour la publication (flux sortant) de données d'urbanisme (Plan Local d'Urbanisme/Plan d'Occupation du Sol, Cartes Communales et Servitudes d'Utilité Publique conformément aux documents de référence référencés ci-après) au travers d'une interface WFS (niveau serveur). Il s'adresse notamment aux plateformes souhaitant diffuser ces données afin d'alimenter le Géoportail de l'Urbanisme (GpU).

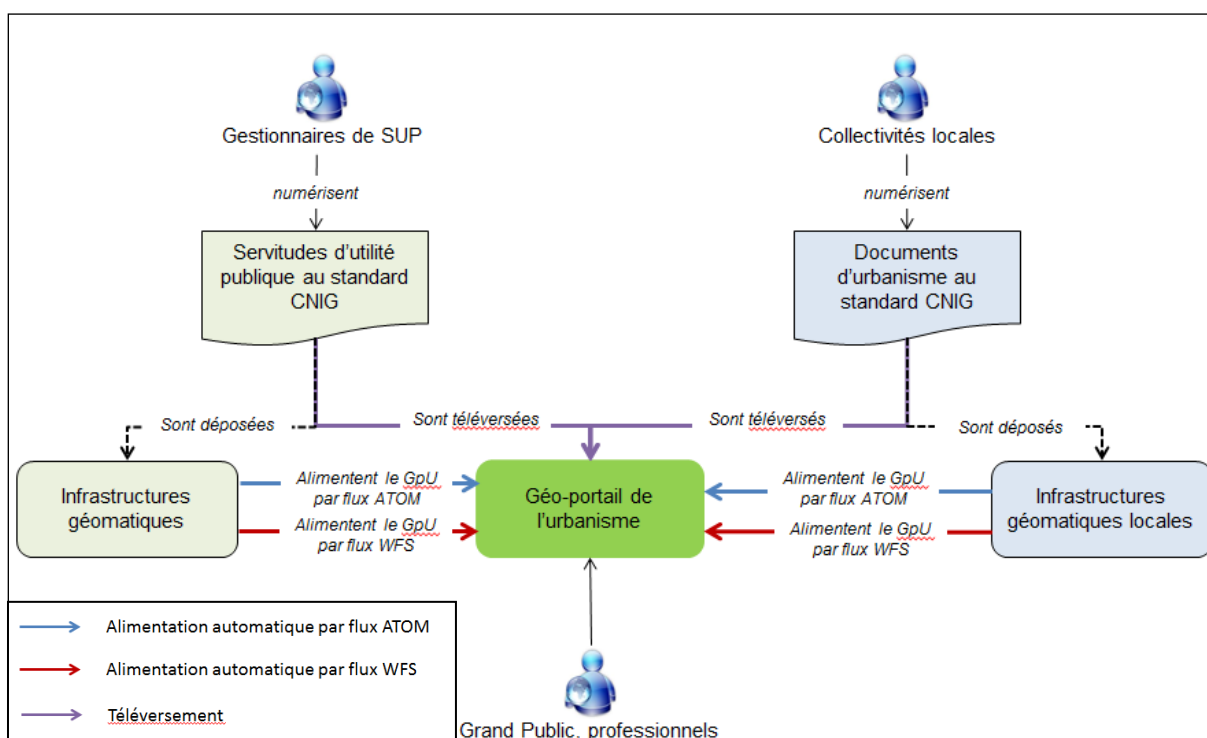


Figure 1 : diagramme d'alimentation du GpU en documents d'urbanisme et SUP

Ce document peut être vu comme une implémentation alternative aux standards CNIG existants, du fait qu'il définit un moyen alternatif à la diffusion classique par média (clef USB, disque dur, ...).

Ce profil doit pouvoir également satisfaire d'autres cas d'utilisation tels ceux avec des services enrichis permettant d'alimenter la fiche d'identité de la parcelle.

Ce profil est défini tel qu'il soit cohérent avec une mise en œuvre INSPIRE (notamment avec le *Guide commun sur les services en réseau* et le *Guide CNIG sur le service de téléchargement INSPIRE*, Cf. I.2). Il peut donc être utilisé conjointement avec ce dernier qu'il complète en adressant spécifiquement les données d'urbanisme.

I.2. Documents de référence

Ce profil s'appuie sur les documents de référence ci-après :

- CNIG. (2013, avril 19). *Carte Communale V2013*. Récupéré sur http://cnig.gouv.fr/wp-content/uploads/2014/02/CNIG_CC_19042013.pdf
- CNIG. (2013, avril 19). *Plan Local d'Urbanisme v2013*. Récupéré sur http://cnig.gouv.fr/wp-content/uploads/2014/02/CNIG_PLU_19042013.pdf
- CNIG. (2013, décembre 19). *Servitudes d'Utilité Publique V2013*. Récupéré sur http://cnig.gouv.fr/wp-content/uploads/2014/09/20140930_STANDARD_SUP_V2013.pdf
- CNIG. (2014, octobre 2). *Consignes de saisie pour les métadonnées INSPIRE de documents d'urbanisme*. Récupéré sur http://cnig.gouv.fr/wp-content/uploads/2014/08/140707_consignes_saisie_metadonnees_documents_urbanisme.pdf
- CNIG. (2014, février). *Guide commun sur les services en réseau*. Récupéré sur <http://cnig.gouv.fr/wp-content/uploads/2014/02/Guide-commun-des-services-INSPIRE.htm>
- CNIG. (2014, septembre). *Guide sur le service de téléchargement INSPIRE, version projet*.
- OGC. (2009, février 16). *OpenGIS Web Feature Service 2.0 Interface Standard (09-025r1)*.
- OGC. (2010, octobre 15). *OpenGIS Filter Encoding 2.0 Encoding Standard (09-026r1)*.

II. Conformité

Le standard WFS 2.0 définit le comportement d'un service permettant l'accès et la gestion de données géographiques vecteur. Il définit des opérations de découverte, de requête, de verrouillage, de transaction et de management des objets géographiques.

Ce profil exige la conformité au standard OGC WFS 2.0 (ou ISO 19142); une seule classe de conformité est définie : **CNIG DU WFS** dont les tests de conformité sont définis en Annexe A1. Cette classe de conformité est donc à la fois compatible avec le téléchargement direct (reposant sur la classe de conformité WFS Basic) et téléchargement simple de jeux de données prédéfinies (reposant sur la classe de conformité WFS Simple) INSPIRE

Le tableau suivant décrit les classes de conformité sur lequel ce profil s'appuie.

Opération ou comportement exigé	Test de conformité OGC / ISO	Test de conformité CNIG WFS
<p>ISO 19142 Basic WFS:</p> <p>"The server shall implement the Simple WFS conformance class and shall additionally implement the GetFeature operation with the Query action and the GetPropertyValue operation."</p>	ISO 19142, A.1.2	
<p>ISO 19142 HTTP GET:</p> <p>The server shall implement the Key-Value Pair (HTTP GET/KVP) encoding.</p>	ISO 19142, A.1.5	
<p>ISO 19142 HTTP POST:</p> <p>The server shall implement the XML (HTTP POST/XML) encoding for the operations that the server offers.</p>	ISO 19142, A.1.6	
<p>ISO 19143 Query</p> <p>Service that references this International Standard materializes a concrete query element that is substitutable for fes:AbstractQueryElement.</p>	ISO 19143, A.1	
<p>ISO 19143 Ad Hoc Query</p> <p>Service that references this International Standard materializes a concrete query element that is substitutable for fes:AbstractAdhocQueryElement and materializes a concrete selection clause element that is substitutable for fes:AbstractSelectionClause and materializes a concrete projection clause element that is substitutable for fes:AbstractProjectionClause and materializes a concrete sorting clause element that is substitutable for fes:AbstractSortingClause.</p>	ISO 19143, A.2	

<p>ISO 19143 Ressource Identification</p> <p>Implements the ResourceId operator with the rid parameter to allow predicates to be written that allow a specific resource to be queried.</p>	ISO 19143, A.4	
<p>ISO 19143 Minimum Standard Filter</p> <p>Implements the comparison operators: PropertyIsEqualTo, PropertyIsNotEqualTo, PropertyIsLessThan, PropertyIsGreaterThan, PropertyIsLessThanOrEqualTo, PropertyIsGreaterThanOrEqualTo. Implements the logical operators. Does not implement any additional functions.</p>	ISO 19143, A.5	
<p>ISO 19143 Minimum Spatial Filter</p> <p>Implements only the BBOX spatial operator.</p>	ISO 19143, A.7	
<p>ISO 19143 Minimum Temporal Filter</p> <p>Implements only the During temporal operator.</p>	ISO 19143, A.9	
<p>ISO 19143 Minimum XPath</p> <p>Implements the minimum required set of XPath capabilities.</p>	ISO 19143, A.14	
<p>Exigences CNIG</p> <p>Le serveur implémente les exigences CNIG complémentaires.</p>		Annexe A.1

Tableau 1 : Classe de conformité CNIG DU WFS

La section IV - Profil WFS - NORMATIF définit les exigences et recommandations de ce standard :

- Les exigences sont définies de la manière suivante et contiennent "DOIT".

EXIGENCE X :

Texte de l'exigence avec une formulation contenant "DOIT".

- Les recommandations sont définies de la manière suivante et contiennent "il est recommandé".

RECOMMANDATION X :

Texte de la recommandation avec une formulation contenant "il est recommandé".

III. OGC Web Feature Service 2.0 - INFORMATIF

Vous trouverez des informations de présentation de ce standard OGC dans la fiche de description de l'AFIGEO (<http://www.afigeo.asso.fr/pole-entreprise/groupe-dinteret-ogc/485-nouvelle-fiche-technique-sur-le-standard-wfs-de-logc63.html>) ainsi que la présentation suivante

(http://www.forumogcfrance.org/IMG/pdf/OGC_Standard_WFS_Neogeo_JI2011_211111.pdf

) réalisée dans le cadre du Forum OGC France, décrivant également les nouveautés de la version 2.0.

IV. Profil WFS - NORMATIF

IV.1.1. Introduction

Comme présenté en introduction, ce profil peut être mis en œuvre conjointement avec les exigences et recommandations INSPIRE.

RECOMMANDATION 1 :

Il est recommandé que la mise en œuvre de ce profil CNIG DU Basic WFS soit mis en œuvre conjointement avec celle du Guide CNIG commun aux services INSPIRE et celle du Guide CNIG sur le service de téléchargement INSPIRE

Ce profil CNIG Basic WFS s'appuie sur la classe de conformité Basic du standard OGC WFS 2.0.

EXIGENCE 1 :

Un serveur WFS DOIT implémenter la classe de conformité Basic de WFS 2.0.

Le niveau WFS Basic permet d'adresser à la fois la notion de téléchargement direct et de téléchargement simple d'INSPIRE.

Note : le guide CNIG recommande un point d'accès (URL) par jeu de données.

Les opérations et paramètres supportés sont discutés dans les sections suivantes

IV.2. Opérations supportées

D'après la classe de conformité Basic de WFS 2.0, les opérations suivantes sont supportées: **GetCapabilities**, **DescribeFeatureType**, **ListStoredQueries**, **DescribeStoredQueries**, **GetFeature**, et **GetPropertyValue**.

IV.2.1. Opération GetCapabilities

Cette opération génère un document de capacités du service. Il contient les informations détaillées dans les sections suivantes.

Note : les exigences INSPIRE et recommandations nationales CNIG quant au contenu du document de capacité sont décrites dans les guides Services CNIG.

IV.2.1.1. ServiceIdentification

EXIGENCE 2 :

La section ServiceIdentification DOIT être remplie comme indiquée par le Tableau 2.

Element		Cardinalité OGC	Cardinalité CNIG (exigence complémentaire)
ows:ServiceIdentification			
	Title	0..*	1..*
	Abstract	0..*	1..* (Cf. EXIGENCE 3)

	Keywords	0..*	5..* (Cf. EXIGENCE 4) WFS 2.0, planification + mot clef thématique usage des sols, Document d'urbanisme,
	ServiceType	1 (WFS)	1 (WFS)
	serviceTypeVersion	1..* (2.0.0 au moins)	1..* (2.0.0 au moins)
	Profile	0..*	1..* (cf. RECOMMANDATION 2_:)
	Fees	0..*	0..*
	AccessConstraints	0..*	0..*

Tableau 2 : GetCapabilities - ServiceIdentification
EXIGENCE 3 :

Un serveur WFS DOIT contenir au minimum le texte "Ce service implémente la version 1.0 du profil CNIG Basic WFS." dans l'élément <Abstract> de la section ServiceIdentification.

EXIGENCE 4 :

Un serveur WFS DOIT contenir au minimum les mots clefs suivants au niveau du service (éléments <Keyword> de la section ServiceIdentification):

- "WFS 2.0", "planification", mots clefs thématiques ("PLUi", "PLU", "POS", "CC", "SUP") suivant le contenu du service ;
- "usage des sols" (thème INSPIRE pour PLU/POS, CC et PLUi), "zones de gestion, de restriction ou de réglementation et unité de déclaration " ou "sites protégés" (thème INSPIRE pour SUP);
- "Document d'urbanisme" (thésaurus GEMET pour PLU/POS, CC et PLUi) suivant les Consignes de saisie des Métadonnées INSPIRE pour données d'urbanisme (cf. I.2).

Note : les mots clefs sont issus du standard "Consignes de saisie pour les métadonnées INSPIRE de documents d'urbanisme".

RECOMMANDATION 2_:

Il est recommandé qu'un serveur WFS fournisse au minimum un élément <ows:profile> dans la section ServiceIdentification avec le contenu suivant :

<ows:Profile>CNIG_WFS_Profile_1.0</ows:Profile>

IV.2.1.2. ServiceProvider

Ce profil ne définit aucune exigence ou de recommandation quant à la section optionnelle <wfs:ServiceProvider>.

IV.2.1.3. OperationsMetadata

Ce profil ne définit aucune exigence ou de recommandation supplémentaire quant à la section <ows:OperationsMetadata >. En respect du profil BASIC WFS 2.0, au minimum 6 opérations seront décrites dans cette section (GetCapabilities, DescribeFeatureType, ListStoredQueries, DescribeStoredQueries, GetFeature et GetPropertyValue).

IV.2.1.4. WSDL

Ce profil ne définit aucune exigence ou de recommandation quant à la section optionnelle <wfs:WSDL>.

IV.2.1.5. FeatureTypeList

Element		Cardinalité OGC	Cardinalité CNIG (exigence complémentaire)
wfs:FeatureTypeList		1	1
	FeatureType	1..*	1..*
	Name	1	1 (Cf. EXIGENCE 6 et EXIGENCE 7)
	Title	0..*	1..* (Cf. EXIGENCE 7)
	Abstract	0..*	0..*
	Keywords	0..*	0..*
	CRS	DefaultCRS	EPSG:2154 (RGF93/Lambert-93) EPSG:32620 (WGS84/UTM zone 20N) EPSG:2972 (RGF95/UTM zone 22N) EPSG:2975 (RGR92/UTM zone 40S) EPSG:4471 (RGM04/UTM zone 38S) Cf. EXIGENCE 5 Erreur ! Source du renvoi introuvable.
		OtherCRS	
	OutputFormats	1..* (GML 3.2.1)	2..* (GML 3.2.1 + SHAPE-ZIP) Cf. EXIGENCE 8
	WGS84BoundingBox	0..*	
	MetadataURL	0..*	0..* (RECOMMANDATION 3)
	ExtendedDescription	0..*	0..*

Tableau 3 : GetCapabilities - FeatureTypeList

EXIGENCE 5 :

Le CRS par défaut des données d'urbanisme publiées DOIT être en cohérence avec les standards CNIG, à savoir :

- France métropolitaine : RGF93/Lambert-93
- Guadeloupe/Martinique : WGS84/UTM zone 20N
- Guyane : RGF95/UTM zone 22N
- Réunion : RGR92/UTM zone 40S
- Mayotte : RGM04/UTM zone 38S

RECOMMANDATION 3 :

Il est recommandé qu'un serveur WFS fournisse un élément metadataURL pour chaque type d'objet géographique. Cet URL pointe vers la métadonnée de jeu de données dont fait partie le type d'objet géographique.

IV.2.1.6. Filter_Capabilities

Ce profil ne définit aucune exigence ou recommandation quant à la section <fes:Filter_Capabilities>. Conformément au standard, cette section décrit tous les filtres supportés dont ceux exigés en section IV.D Filtres.

IV.2.2. IV.B.2 Structure des données et DescribeFeatureType

L'opération GetCapabilities renvoie la liste des types d'objets géographiques publiés sur le serveur WFS. L'opération DescribeFeatureType permet quant à elle de découvrir l'ensemble des attributs et relations d'un type d'objet (par retour du schéma de données en GML).

Le standard CNIG PLU définit le PLU comme un ensemble de Données Géographiques et de Pièces écrites. Les données géographiques peuvent être exposées et transmises directement au travers du service WFS; en ce qui concerne les pièces écrites il est choisi d'ajouter un attribut URLPE pointant vers un fichier ZIP correspondant au répertoire Pieces_ecrire.

EXIGENCE 6 :

Les données d'urbanisme DOIVENT être servies suivant le/les schéma(s) INSPIRE harmonisé(s) (méthode préférée) correspondant(s) à la thématique ou suivant les modèles CNIG correspondants.

En particulier, la réponse à une requête DescribeFeatureType DOIT renvoyer un schéma GML conforme à ces modèles.

Note : une diffusion des données suivant les schémas INSPIRE sera obligatoire suivant les délais fixés par le règlement. D'ici là une diffusion (flux sortant) suivant le standard CNIG est possible.

EXIGENCE 7 :

Dans le cas d'une diffusion des données conformes aux modèles CNIG,
 - les éléments Name et Title (GetCapabilities) DOIVENT être définis conformément au Tableau 4.
 - les schémas GML renvoyés à la requête DescribeFeatureType DOIVENT définir les types d'objets listés en Tableau 4 conformément aux schémas définis en Annexe B.

Note : les schémas pour les données SUP sont normatifs, moyennant la mise à jour du suffixe "_DDD".

Donnée d'urbanisme	Types d'objet géographiques à servir	
	Name	Title
PLU/POS	DOC_URBA, DOC_URBA_COM	Plan local d'urbanisme, plan d'occupation du sol

	ZONE_URBA	Quartiers, secteur ou Zone du document d'urbanisme.
	PRESCRIPTION_(SURF/LIN/PCT)	Prescription
	INFO_(SURF/LIN/PCT)	Périmètre d'information, information linéaire, information ponctuelle, annexe du document graphique
	HABILLAGE_(TXT/SURF/LIN/PCT)	Éléments d'habillage des documents graphiques du document d'urbanisme
CC	DOC_URBA, DOC_URBA_COM	Carte communale
	SECTEUR_CC	Secteur d'une carte communale
	INFORMATION_(SURF/LIN/PCT)	Périmètre d'information, information linéaire, information ponctuelle, annexe du document graphique
	HABILLAGE_(TXT/SURF/LIN/PCT)	Éléments d'habillage des documents graphiques du document d'urbanisme
SUP	GESTIONNAIRE_SUP_<DDD>	Organisme gestionnaire ou organisme ressource de la servitude
	ACTE_SUP_<DDD>	Acte de servitude d'utilité publique
	SERVITUDE_<DDD>	Servitude d'utilité publique
	SERVITUDE_ACTE_SUP_<DDD>	Relation entre ACTE_SUP_<DDD> et SERVITUDE_<DDD>
	<Categorie>_GENERATEUR_SUP_(P/L/S)_<DDD> ,	Générateur de servitude d'utilité publique
	<Categorie>_ASSIETTE_SUP_(P/L/S)_<DDD>	Assiette de servitude d'utilité publique
	Le modèle simplifié est supporté par l'unique classe <Categorie>_ASSIETTE_SUP_(P/L/S)_<INSEE>_SIMPLIFIEE	Servitude d'utilité publique (modèle simplifié)
<i>Notes :</i>		
<DDD> : numéro de département sur 3 caractères. Exemples : 035, 972.		
<Categorie> : les catégories des assiettes et de leurs générateurs sont détaillées en section 5.1 – Nomenclature des Servitudes d'Utilité Publique du Standard CNIG SUP).		
(P/L/S) : P :ponctuel, L : linéaire, S :surfaique		

Tableau 4 : types d'objets géographiques à publier sur un service WFS

Note1: les noms des types d'objets géographiques (name) correspondent aux noms de table des implémentations informatiques. Les titres (title) correspondent aux synonymes définis dans les différents modèles CNIG.

Note2: les schémas accessibles au travers de la requête DescribeFeatureType peuvent être plus complets et contenir d'autres types de données.

IV.2.3. IV.B.3 Opération GetFeature

IV.2.3.1. i. Formats supportés

Le standard WFS 2.0 exige la publication des données au minimum au format GML 3.2.1 (i.e. ISO 19136).

EXIGENCE 8 :

Un serveur WFS DOIT servir les données au minimum en GML 3.2.1 (exigé par le standard WFS 2.0).

LE format SHAPE-ZIP permet d'encapsuler l'ensemble des résultats (plusieurs tables) correspondant à une requête GetFeature dans une archive .zip (tout comme une FeatureCollection GML).

IV.3. Bindings

Les bindings définissent comment les requêtes peuvent être envoyées par un client vers le serveur WFS. Classiquement, l'OGC définit les bindings : Get/KVP, POST/XML, SOAP et REST (pas actuellement disponible pour WFS 2.0).

EXIGENCE 9 :

Un serveur WFS DOIT implémenter la classe de conformité 'HTTP GET' de WFS 2.0.

Le support de la classe de conformité HTTP POST permet de gérer des requêtes plus complexes (par exemple avec des jointures). HTTP POST est supporté par l'ensemble des mises en œuvre WFS 2.0 et bien souvent par défaut.

EXIGENCE 10 :

Un serveur WFS DOIT implémenter la classe de conformité 'HTTP POST' de WFS 2.0.

IV.4. Filtres

Cette section traite spécifiquement de la conformité au standard Filter Encoding 2.0 (ISO 19143). Les exigences ci-après sont cohérentes avec le téléchargement simple et direct INSPIRE.

EXIGENCE 11 :

Un serveur WFS DOIT implémenter la classe de conformité 'Query' et 'Ad Hoc Query' de Filter Encoding 2.0.

EXIGENCE 12 :

Un serveur WFS DOIT implémenter la classe de conformité 'Resource Identification', 'Minimum Standard Filter', 'Minimum Spatial Filter', 'Minimum Temporal' et 'Minimum XPath' de Filter Encoding 2.0.

IV.5. Mécanisme de mise à jour

IV.5.1. Mise à jour des données par les plateformes

Le mécanisme utilisé sur les plateformes pour publier les données à jour reste à la discrétion de celles-ci. Il s'agit d'exposer les dernières données approuvées, à savoir la dernière date d'approbation (PLU/POS/CC) et dernière date de publication (SUP).

Au minimum, deux scénarios peuvent être opérés au niveau du service :

- Remplacement global du document d'urbanisme et des éléments qui en dépendent. Ce scénario correspond à une approche qui consiste à stocker les fichiers par document d'urbanisme de manière à grouper tous les fichiers se rapportant au même document.
- Mise à jour du document d'urbanisme et uniquement des zones mise à jours (données non modifiées n'ont pas besoin d'être mises à jour). Il s'agit donc de ne modifier que le document d'urbanisme et les objets impactés par cette mise à jour. C'est une approche orientée "base de données"; elle n'est pas retenue par le standard CNIG PLU/CC V2013.

IV.5.2. Mise à jour des données côté Géoportail

Le Géoportail ne va pas télécharger régulièrement l'ensemble des données d'urbanisme mises à disposition par les plateformes. Il s'agit de télécharger uniquement les données qui sont mises à jour. Il n'est pas attendu de mécanisme spécifique de notification du côté des plateformes diffusant les données.

- PLU/CC

Les différentes dates fournies par les données (date approbation, date validation, ...) ne permettent pas de savoir a priori quand les données ont été publiées sur le service WFS et si elles sont alors déjà sur le Géoportail.

L'idée est donc de ne remonter sur le Géoportail que les nouvelles données, suivant les étapes ci-après :

- Vérification de l'attribut `updateSequence` du document `GetCapabilities` (si des données ont été mises à jour alors ce dernier l'est également);
- Mise en place de la liste des nouvelles données / données mise à jour par le client (Géoportail dans ce cas) grâce à l'identifiant de document d'urbanisme `idDocumentUrba` (formalisé par `[code INSEE ou numéro SIREN]_[date d'approbation]`). Cet identifiant est mis à jour dès qu'une modification est approuvée.
- La liste des documents d'urbanisme peut alors être téléchargée par le client (le Géoportail de l'Urbanisme dans ce cas précis)

- SUP

En ce qui concerne ces données, le principe est moins simple du fait d'un modèle relationnel avec des relations n-m notamment. Il s'agit ici de remonter tout nouvel objet en se basant sur leur identifiant unique (`IdGest` pour les gestionnaires, `IdActe` pour les actes, `IdSup` pour les servitudes, couples `IdSup/IdActe` pour les relations entre servitudes et actes, `IdGen` pour les générateurs). Il s'agit donc de remonter toutes les données non connues du client.

En ce qui concerne le modèle simplifié, l'attribut `"dateMiseaJour"` pourra être utilisé pour déterminer s'il est nécessaire de mettre à jour les données côté GpU.

IV.6. Mécanisme des pièces jointes

IV.6.1. Proposition d'évolution de l'implémentation du standard CNIG PLU

Le standard CNIG PLU définit le PLU comme un ensemble de Données Géographiques et de Pièces écrites.



Les données géographiques peuvent être exposées et transmises directement au travers du service WFS; en ce qui concerne les pièces écrites il est choisi d'ajouter un lien vers ces dernières au sein des données géographiques. Pour cela, le répertoire Pieces_écrite sera alors zippé et l'url d'accès à ce fichier ZIP sera ajouté en tant qu'attribut du PLU (attribut URLPE).

En pratique, l'attribut sera ajouté aux classes DOC_URBA.

Exemple **DOC_URBA**

Géométrie	Attributs	Libellés	Occurrences	Types	Code EDIGéo
T	IDURBA	identifiant		C20	H_17_0_1
	TYPEDOC	Type du document concerné	01 : PLU 02 : POS	C3	
	DATAPPRO	Date d'approbation		C8	
	DATEFIN	Date de fin de validité		C8	
	INTERCO	Est intercommunal	T (« oui ») ou F (« non »)	C1	
	SIREN	Code SIREN de l'intercommunalité		C9	
	ETAT	Etat du document	01 : en cours de procédure 02 : arrêté (au sens de l'article 6 : acte administratif qui donne une validité au document) 03 : opposable 04 : annulé 05 : remplacé 06: abrogé	C2	
	NOMREG	Nom du fichier de règlement		C80	

Profil WFS Données d'Urbanisme v0.8.2

	URLREG	URL ou URI du fichier		C 254	
	NOMPLAN	Nom du fichier du plan scanné		C5	
	URLPLAN	URL ou URI du fichier		C 254	
	SITEWEB	Site web du service d'accès	Adresse Internet du service d'accès	C 254	
	TYPEREf	Type du référentiel utilisé	01 : PCI 02 : BD Parcellaire	C15	
	DATEREF	Date du référentiel saisie		C8	
	URLPE	URL ou URI du ZIP des pièces écrites		C 254	

IV.6.2. Proposition d'évolution de l'implémentation du standard CNIG CC

Le standard CNIG PLU définit la CC comme un ensemble de Données Géographiques et de Pièces écrites.



Les données géographiques peuvent être exposées et transmises directement au travers du service WFS; en ce qui concerne les pièces écrites il est choisi d'ajouter un lien vers ces dernières au sein des données géographiques. Pour cela, le répertoire Pieces_ecrite sera alors zippé et l'url d'accès à ce fichier ZIP sera ajouté en tant qu'attribut de la CC (attribut URLPE).

En pratique, l'attribut sera ajouté sur la classe mère DOC_URBA.

DOC_URBA

Géométrie	Attributs	Libellés	Occurrences	Types	Code EDIGéo
T	IDURBA	identifiant		C20	H_17_0_1
	TYPEDOC	Type du document concerné	03 : CC	C3	
	DATAPPRO	Date d'approbation		C8	
	DATEFIN	Date de fin de validité		C8	
	INTERCO	Est intercommunal	T (« oui ») ou F (« non »)	C1	
	SIREN	Code SIREN de l'intercommunalité		C9	
	ETAT	Etat du document	01 : en cours de procédure 02 : arrêté (au sens de l'article 6 : acte administratif qui donne une validité au document) 03 : opposable 04 : annulé 05 : remplacé	C2	
	NOMREG	Nom du fichier de règlement		C80	
	URLREG	URL ou URI du fichier		C 254	

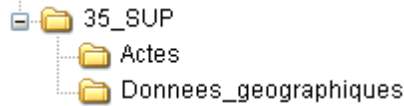
Profil WFS Données d'Urbanisme v0.8.2

	NOMPLAN	Nom du fichier du plan scanné		C5	
	URLPLAN	URL ou URI du fichier		C 254	
	SITWEB	Site web du service d'accès	Adresse Internet du service d'accès	C 254	
	TYPeref	Type du référentiel utilisé	01 : PCI 02 : BD Parcellaire	C15	
	DATEREF	Date du référentiel saisie		C8	
	URLPE	URL ou URI du ZIP des pièces écrites		C 254	

IV.7. Proposition d'évolution de l'implémentation du standard CNIG SUP

Lien vers les actes

Les données géographiques peuvent être exposées et transmises directement au travers du service WFS; en ce qui concerne les actes, il est choisi d'ajouter un lien vers ces dernières au sein des données géographiques. Pour cela, le répertoire Actes sera alors zippé et l'url d'accès à ce fichier ZIP sera ajouté en tant qu'attribut de la classe ActeServitude (attribut urlActes).



Concernant la structure simplifiée, le stockage et dénomination des actes étant équivalent à celle de la structure complète, le même principe sera appliqué, c'est-à-dire l'ajout de l'attribut urlActes donnant accès au Zip du répertoire Actes des données à la classe <Categorie>_ASSIETTE_SUP_(P/L/S)_{INSEE}_SIMPLIFIEE.

Annexe A Suite de tests abstraits

A.1. Conformité CNIG DU WFS

A.1.1 conformité aux standards OGC

- a) Sujet du test: vérifier que le serveur implémente les classe de conformités des standards OGC WFS 2.0 (cf. EXIGENCE 1, EXIGENCE 9, EXIGENCE 10) et Filter Encoding 2.0 (EXIGENCE 11, EXIGENCE 12).
- b) Méthode de test: vérifier que le server passe les tests des classes de conformités suivantes : Basic WFS (A.1.2), HTTP Get (A.1.5), HTTP POST (A.1.6) de WFS 2.0 et Query (A.1), Ad Hoc Query (A.2), Ressource Identification (A.4), Minimum Standard Filter (A.5), Minimum Spatial Filter (A.7), Minimum Temporal Filter (A.9) et Minimum XPath (A.14).
- c) Références: section IV, WFS 2.0 et Filter Encoding 2.0 (cf. I.2)
- d) Type de test: capacité

A.1.2 Tests de base

A.1.2.1 opération GetCapabilities

- a) Sujet du test: vérifier que le serveur implémente les exigences : EXIGENCE 2, EXIGENCE 3, EXIGENCE 4, EXIGENCE 5, EXIGENCE 6, EXIGENCE 7, EXIGENCE 8.
- b) Méthode de test: vérifier que le document XML en retour d'une requête conforme GetCapabilities contiennent les éléments conformément Tableau 2, Tableau 3, Tableau 4.
- c) Références: section IV.2.1
- d) Type de test: Capacité

A.1.2.2 opération DescribeFeatureType

- a) Sujet du test: vérifier que le serveur implémente les exigences : EXIGENCE 6, EXIGENCE 7.
- b) Méthode de test: vérifier que les document XML en retour d'une requête conforme DescribeFeatureType soit conforme à la structure définie au tableau Tableau 4 et Annexe B.
- c) Références: section IV.2.2
- d) Type de test: Capacité

A.1.2.3 opération GetFeature

- e) Sujet du test: vérifier que le serveur implémente les exigences : EXIGENCE 6, EXIGENCE 7, EXIGENCE 8.
- f) Méthode de test: vérifier que les réponse en retour de requêtes GetFeature (pour chaque type d'objet exposé par le service WFS) sont conformes en terme de structure au Tableau 4 et Annexe B et que les formats GML et SHAPE-ZIP sont supportés.

- g) Références: section IV.2.3
- h) Type de test: Capacité

Annexe B Schémas GML – Normatif

B.1. Schéma PLU

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:PLU="http://gpu.gouv.fr/PLU" xmlns:gml="http://www.opengis.net/gml/3.2"
xmlns:wfs="http://www.opengis.net/wfs/2.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://gpu.gouv.fr/PLU" elementFormDefault="qualified">
  <xsd:import namespace="http://www.opengis.net/gml/3.2"
schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd"/>
  <xsd:complexType name="DOC_URBAType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="IDURBA" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="DATAPPRO" type="xsd:dateTime"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="DATEFIN" type="xsd:dateTime"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="INTERCO" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="SIREN" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
          <xsd:element name="NOMREG" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="URLREG" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="NOMPLAN" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="URLPLAN" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="SITEWEB" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="TYPEREF" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="DATEREF" type="xsd:dateTime"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="TYPEDOC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="ETAT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
          <xsd:element name="URLPE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="DOC_URBA" type="PLU:DOC_URBAType"
substitutionGroup="gml:AbstractFeature"/>
  <xsd:complexType name="HABILLAGE_LINType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element name="the_geom"
type="gml:MultiCurvePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
          <xsd:element name="NATTRAC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

```



```

        <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_LIN" type="PLU:HABILLAGE_LINType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="HABILLAGE_PCTType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NATTRAC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_PCT" type="PLU:HABILLAGE_PCTType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="HABILLAGE_SURFType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiSurfacePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NATTRAC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_SURF" type="PLU:HABILLAGE_SURFType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="DOC_URBA_COMType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="IDURBA" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DATECOG" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="DOC_URBA_COM" type="PLU:DOC_URBA_COMType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="HABILLAGE_TXTType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>

```

```

        <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="NATECR" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
        <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_TXT" type="PLU:HABILLAGE_TXTType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="ZONE_URBAType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiSurfacePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELONG" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEZONE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DESTDOMI" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DATAPPRO" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DATVALID" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="ZONE_URBA" type="PLU:ZONE_URBAType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="INFO_LINType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiCurvePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEINF" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

```

        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFO_LIN" type="PLU:INFO_LINType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="INFO_PCTType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEINF" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFO_PCT" type="PLU:INFO_PCTType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="INFO_SURFType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiSurfacePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEINF" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFO_SURF" type="PLU:INFO_SURFType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="PRESCRIPTION_LINType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiCurvePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

```

        <xsd:element name="TYPEPSC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
        <xsd:element name="DATAPPRO" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
        <xsd:element name="DATVALID" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="PRESCRIPTION_LIN" type="PLU:PRESCRIPTION_LINType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="PRESCRIPTION_PCTType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:PointPropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEPSC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="INSEE" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DATAPPRO" type="xsd:dateTime"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="DATVALID" type="xsd:dateTime"
nillable="true" minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="PRESCRIPTION_PCT" type="PLU:PRESCRIPTION_PCTType"
substitutionGroup="gml:AbstractFeature"/>
<xsd:complexType name="PRESCRIPTION_SURFType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element name="the_geom"
type="gml:MultiSurfacePropertyType" nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="LIBELLE" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TXT" type="xsd:string" nillable="true"
minOccurs="0" maxOccurs="1"/>
                <xsd:element name="TYPEPSC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="NOMFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                <xsd:element name="URLFIC" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

```

minOccurs="0" maxOccurs="1"/>
                                <xsd:element name="INSEE" type="xsd:string" nillable="true"
nillable="true" minOccurs="0" maxOccurs="1"/>
                                <xsd:element name="DATAPPRO" type="xsd:string"
nillable="true" minOccurs="0" maxOccurs="1"/>
                                <xsd:element name="DATVALID" type="xsd:string"
                                </xsd:sequence>
                                </xsd:extension>
                                </xsd:complexContent>
                                </xsd:complexType>
                                <xsd:element name="PRESCRIPTION_SURF" type="PLU:PRESCRIPTION_SURFType"
substitutionGroup="gml:AbstractFeature"/>
</xsd:schema>

```

B.2. Schéma CC

```

<?xml version="1.0" encoding="UTF-8"?><xsd:schema xmlns:CC="http://gpu.gouv.fr/CC"
xmlns:gml="http://www.opengis.net/gml/3.2" xmlns:wfs="http://www.opengis.net/wfs/2.0"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
targetNamespace="http://gpu.gouv.fr/CC">
  <xsd:import namespace="http://www.opengis.net/gml/3.2"
schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd"/>
  <xsd:complexType name="HABILLAGE_LINType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiCurvePropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="NATTRAC" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="HABILLAGE_LIN" substitutionGroup="gml:AbstractFeature"
type="CC:HABILLAGE_LINType"/>
  <xsd:complexType name="DOC_URBA_COMType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IDURBA" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="DATECOG" nillable="true"
type="xsd:string"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="DOC_URBA_COM" substitutionGroup="gml:AbstractFeature"
type="CC:DOC_URBA_COMType"/>
  <xsd:complexType name="HABILLAGE_PCTType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>

```

```

        <xsd:element maxOccurs="1" minOccurs="0" name="NATTRAC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_PCT" substitutionGroup="gml:AbstractFeature"
type="CC:HABILLAGE_PCTType"/>
<xsd:complexType name="HABILLAGE_SURFType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiSurfacePropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="NATTRAC" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_SURF" substitutionGroup="gml:AbstractFeature"
type="CC:HABILLAGE_SURFType"/>
<xsd:complexType name="DOC_URBAType">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IDURBA" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPEDOC" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="DATAPPRO" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="DATEFIN" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="INTERCO" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="SIREN" nillable="true" type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="ETAT" nillable="true" type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="NOMREG" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="URLREG" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="NOMPLAN" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="URLPLAN" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="SITEWEB" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPEREF" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="DATEREF" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="URLPE" nillable="true" type="xsd:string"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="DOC_URBA" substitutionGroup="gml:AbstractFeature"
type="CC:DOC_URBAType"/>

```



```

<xsd:complexType name="HABILLAGE_TXTType">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="NATECR" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TXT" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="HABILLAGE_TXT" substitutionGroup="gml:AbstractFeature"
type="CC:HABILLAGE_TXTType"/>
<xsd:complexType name="INFORMATION_LINType">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiCurvePropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="LIBELLE" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TXT" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPEINF" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPEP" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="NOMFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="URLFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFORMATION_LIN" substitutionGroup="gml:AbstractFeature"
type="CC:INFORMATION_LINType"/>
<xsd:complexType name="INFORMATION_PCTType">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="LIBELLE" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TXT" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPEINF" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPEP" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="NOMFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="URLFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFORMATION_PCT" substitutionGroup="gml:AbstractFeature"
type="CC:INFORMATION_PCTType"/>
<xsd:complexType name="INFORMATION_SURFType">

```

```

<xsd:complexContent>
  <xsd:extension base="gml:AbstractFeatureType">
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiSurfacePropertyType"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="LIBELLE" nillable="true"
type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="TXT" nillable="true" type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="TYPEINF" nillable="true"
type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="TYPEP" nillable="true" type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="NOMFIC" nillable="true"
type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="URLFIC" nillable="true"
type="xsd:string"/>
      <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="INFORMATION_SURF" substitutionGroup="gml:AbstractFeature"
type="CC:INFORMATION_SURFtype"/>
<xsd:complexType name="SECTEUR_CCType">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiSurfacePropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="LIBELLE" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPESECT" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="FERMRECO" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="DESTDOMI" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="NOMFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="URLFIC" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="INSEE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="DATAPPRO" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="DATVALID" nillable="true"
type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="SECTEUR_CC" substitutionGroup="gml:AbstractFeature"
type="CC:SECTEUR_CCType"/>
</xsd:schema>

```

B.3. Schéma SUP

B.3.1 Schéma complet

```

<?xml version="1.0" encoding="UTF-8"?><xsd:schema xmlns:SUP="http://gpu.gouv.fr/SUP"
xmlns:gml="http://www.opengis.net/gml/3.2" xmlns:wfs="http://www.opengis.net/wfs/2.0"

```



```

xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
targetNamespace="http://gpu.gouv.fr/SUP">
  <xsd:import namespace="http://www.opengis.net/gml/3.2"
schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd"/>
  <xsd:complexType name="AC1_ASSIETTE_SUP_L_041Type">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiCurvePropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IdAss" nillable="true" type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="nomAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="typeAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="modeGeoAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="paramCalc" nillable="true"
type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="dateSrcAss" nillable="true"
type="xsd:string"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="AC1_ASSIETTE_SUP_L_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_ASSIETTE_SUP_L_041Type"/>
  <xsd:complexType name="AC1_ASSIETTE_SUP_P_041Type">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IdAss" nillable="true" type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="nomAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="typeAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="modeGeoAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="paramCalc" nillable="true"
type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoAss" nillable="true"
type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="dataSrcAss" nillable="true"
type="xsd:string"/>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="AC1_ASSIETTE_SUP_P_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_ASSIETTE_SUP_P_041Type"/>
  <xsd:complexType name="AC1_ASSIETTE_SUP_S_041Type">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiSurfacePropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0" name="IdAss" nillable="true" type="xsd:long"/>

```

```

        <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="nomAss" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="typeAss" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="modeGeoAss" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="paramCalc" nillable="true"
type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoAss" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="dateSrcAss" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="H" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="HREF" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="XDEBUT" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="YDEBUT" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="XFINAL" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="YFINAL" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="LARGEUR" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="ANGLE1" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="ANGLE2" nillable="true"
type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="RAYON" nillable="true"
type="xsd:double"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_ASSIETTE_SUP_S_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_ASSIETTE_SUP_S_041Type"/>
<xsd:complexType name="AC1_GENERATEUR_SUP_L_041Type">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiCurvePropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IdSup" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="typeGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="modeGenere" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="dateSrcGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="refBDExt" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="idBDExt" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="ADRESSE" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPE" nillable="true" type="xsd:string"/>
            
```

```

        <xsd:element maxOccurs="1" minOccurs="0" name="DIAMETRE" nillable="true"
type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TENSION" nillable="true"
type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="ID_GASPAR" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="CODE_ALEA" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="CROISEMENT" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_GEST" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_VOIE" nillable="true"
type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_GENERATEUR_SUP_L_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_GENERATEUR_SUP_L_041Type"/>
<xsd:complexType name="AC1_GENERATEUR_SUP_P_041Type">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IdSup" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="typeGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="modeGenere" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="dateSrcGen" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="refBDExt" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="idBDExt" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="ADRESSE" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPE" nillable="true" type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="DIAMETRE" nillable="true"
type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TENSION" nillable="true"
type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="ID_GASPAR" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="CODE_ALEA" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="CROISEMENT" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_GEST" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_VOIE" nillable="true"
type="xsd:string"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element name="AC1_GENERATEUR_SUP_P_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_GENERATEUR_SUP_P_041Type"/>
<xsd:complexType name="AC1_GENERATEUR_SUP_S_041Type">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:MultiSurfacePropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="IdGen" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="IdSup" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="nomGen" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="typeGen" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="modeGenere" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="srcGeoGen" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="dateSrcGen" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="refBDExt" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="idBDExt" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="ADRESSE" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="DIAMETRE" nillable="true"
type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="ID_GASPAR" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="CODE_ALEA" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TENSION" nillable="true"
type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="CROISEMENT" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_GEST" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE_VOIE" nillable="true"
type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_GENERATEUR_SUP_S_041" substitutionGroup="gml:AbstractFeature"
type="SUP:AC1_GENERATEUR_SUP_S_041Type"/>
<xsd:complexType name="ACTE_SUP_041Type">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="idActe" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="nomActe" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="reference" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="typeActe" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="fichier" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="decision" nillable="true"
type="xsd:string"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

        <xsd:element maxOccurs="1" minOccurs="0" name="dateDecis" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="datePub" nillable="true"
type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="aPlan" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="urlActes" nillable="true"
type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="ACTE_SUP_041" substitutionGroup="gml:AbstractFeature"
type="SUP:ACTE_SUP_041Type"/>
<xsd:complexType name="GESTIONNAIRE_SUP_041Type">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="idGest" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomGest" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomCorres" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="numTel" nillable="true" type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="courriel" nillable="true" type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="adresse" nillable="true"
type="xsd:string"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
<xsd:element name="GESTIONNAIRE_SUP_041" substitutionGroup="gml:AbstractFeature"
type="SUP:GESTIONNAIRE_SUP_041Type"/>
<xsd:complexType name="SERVITUDE_041Type">
    <xsd:complexContent>
        <xsd:extension base="gml:AbstractFeatureType">
            <xsd:sequence>
                <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="IdGest" nillable="true" type="xsd:long"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomSup" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="nomSupLitt" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="categorie" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="idIntGest" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="descriptio" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="dateMaj" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="echNum" nillable="true" type="xsd:int"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="valideGest" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="obsValidat" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="estAbroge" nillable="true"
type="xsd:string"/>
                <xsd:element maxOccurs="1" minOccurs="0" name="modeProd" nillable="true"
type="xsd:string"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```



```

    <xsd:element maxOccurs="1" minOccurs="0" name="quiProd" nillable="true"
type="xsd:string"/>
    <xsd:element maxOccurs="1" minOccurs="0" name="docSource" nillable="true"
type="xsd:string"/>
    <xsd:element maxOccurs="1" minOccurs="0" name="IdSup" nillable="true" type="xsd:long"/>
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="SERVITUDE_041" substitutionGroup="gml:AbstractFeature"
type="SUP:SERVITUDE_041Type"/>
<xsd:complexType name="SERVITUDE_ACTE_SUP_041Type">
  <xsd:complexContent>
    <xsd:extension base="gml:AbstractFeatureType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" name="the_geom" nillable="true"
type="gml:PointPropertyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="IdSup" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="IdActe" nillable="true" type="xsd:long"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="SERVITUDE_ACTE_SUP_041" substitutionGroup="gml:AbstractFeature"
type="SUP:SERVITUDE_ACTE_SUP_041Type"/>
</xsd:schema>

```

B.3.2 Schéma simplifié

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:SUPS="http://gpu.gouv.fr/SUPS" xmlns:gml="http://www.opengis.net/gml/3.2"
xmlns:wfs="http://www.opengis.net/wfs/2.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" targetNamespace="http://gpu.gouv.fr/SUPS">
  <xsd:import namespace="http://www.opengis.net/gml/3.2"
schemaLocation="http://dgiwg.ign.fr:8080/geoserver/schemas/gml/3.2.1/gml.xsd"/>
  <xsd:complexType name="AC1_ASSIETTE_SUP_L_041001_SIMPLIFIEEType">
    <xsd:complexContent>
      <xsd:extension base="gml:AbstractFeatureType">
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0"
name="the_geom" nillable="true" type="gml:MultiCurvePropertyType"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="nomAss" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="typeAss" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="modeGeoAss" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="paramCalc" nillable="true" type="xsd:long"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoAss" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="dateSrcAss" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="nomSup" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="nomSupLitt" nillable="true" type="xsd:string"/>
          <xsd:element maxOccurs="1" minOccurs="0"
name="categorie" nillable="true" type="xsd:string"/>

```

```

        <xsd:element maxOccurs="1" minOccurs="0"
name="idIntGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="descriptio" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateMaj" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="echNum" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="valideGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="obsValidat" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="estAbroge" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="modeProd" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="quiProd"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="docSource" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="modeGenere" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateSrcGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="refBDExt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="idBDExt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ADRESSE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="DIAMETRE" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="TENSION" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="CROISEMENT" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="TYPE_GEST" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="TYPE_VOIE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomCorres" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="numTel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="courriel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomActe" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="reference" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeActe" nillable="true" type="xsd:string"/>

```

```

        <xsd:element maxOccurs="1" minOccurs="0" name="fichier"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="decision" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateDecis" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="datePub" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="aPlan"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="urlActes" nillable="true" type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_ASSIETTE_SUP_L_041001_SIMPLIFIEE"
substitutionGroup="gml:AbstractFeature"
type="SUPS:AC1_ASSIETTE_SUP_L_041001_SIMPLIFIEEtype"/>
    <xsd:complexType name="AC1_ASSIETTE_SUP_P_041001_SIMPLIFIEEtype">
        <xsd:complexContent>
            <xsd:extension base="gml:AbstractFeatureType">
                <xsd:sequence>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="the_geom" nillable="true" type="gml:PointPropertyType"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="nomAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="typeAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="modeGeoAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="paramCalc" nillable="true" type="xsd:long"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="dataSrcAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="nomSup" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="nomSupLitt" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="categorie" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="idIntGest" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="descriptio" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="dateMaj" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="echNum" nillable="true" type="xsd:long"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="valideGest" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="obsValidat" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="estAbroge" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="modeProd" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0" name="quiProd"
nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="docSource" nillable="true" type="xsd:string"/>
                
```



```

        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="modeGenere" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateSrcGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="refBDExt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="idBDExt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ADRESSE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="numTel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="courriel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomActe" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="reference" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeActe" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="fichier"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="decision" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateDecis" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="datePub" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="aPlan"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="urlActes" nillable="true" type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_ASSIETTE_SUP_P_041001_SIMPLIFIEE"
substitutionGroup="gml:AbstractFeature"
type="SUPS:AC1_ASSIETTE_SUP_P_041001_SIMPLIFIEEType"/>
    <xsd:complexType name="AC1_ASSIETTE_SUP_S_041001_SIMPLIFIEEType">
        <xsd:complexContent>
            <xsd:extension base="gml:AbstractFeatureType">
                <xsd:sequence>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="the_geom" nillable="true" type="gml:MultiSurfacePropertyType"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="nomAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="typeAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="modeGeoAss" nillable="true" type="xsd:string"/>
                    <xsd:element maxOccurs="1" minOccurs="0"
name="paramCalc" nillable="true" type="xsd:long"/>
                
```

```

        <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoAss" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateSrcAss" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="H"
nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="HREF"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="XDEBUT" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="YDEBUT" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="XFINAL"
nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="YFINAL"
nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="LARGEUR" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ANGLE1" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ANGLE2" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="RAYON" nillable="true" type="xsd:double"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomSup" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomSupLitt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="categorie" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="idIntGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="descriptio" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateMaj" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="echNum" nillable="true" type="xsd:long"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="valideGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="obsValidat" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="estAbroge" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="modeProd" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="quiProd"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="docSource" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="modeGenere" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="srcGeoGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateSrcGen" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="refBDExt" nillable="true" type="xsd:string"/>

```

```

        <xsd:element maxOccurs="1" minOccurs="0"
name="idBDExt" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="TYPE"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ADRESSE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="ID_GASPAR" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="CODE_ALEA" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="CROISEMENT" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="TYPE_GEST" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="TYPE_VOIE" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomGest" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomCorres" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="numTel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="courriel"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="nomActe" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="reference" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="typeActe" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="fichier"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="decision" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="dateDecis" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="datePub" nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0" name="aPlan"
nillable="true" type="xsd:string"/>
        <xsd:element maxOccurs="1" minOccurs="0"
name="urlActes" nillable="true" type="xsd:string"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="AC1_ASSIETTE_SUP_S_041001_SIMPLIFIEE"
substitutionGroup="gml:AbstractFeature"
type="SUPS:AC1_ASSIETTE_SUP_S_041001_SIMPLIFIEEType"/>
</xsd:schema>

```

Annexe C Exemples - INFORMATIF

Cette annexe présente les exemples de requêtes/réponses attendues d'un service WFS compatible avec ce profil ainsi que le guide de téléchargement INSPIRE.

C.1. Exemple de réponse GetCapabilities

<http://dgiwg.ign.fr:8080/geoserver/CC/wfs?service=WFS&request=GetCapabilities>

Exemple de réponse GetCapabilities :

```
<?xml version="1.0" encoding="UTF-8"?>
<wfs:WFS_Capabilities version="2.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.opengis.net/wfs/2.0" xmlns:wfs="http://www.opengis.net/wfs/2.0"
xmlns:ows="http://www.opengis.net/ows/1.1" xmlns:gml="http://www.opengis.net/gml/3.2"
xmlns:fes="http://www.opengis.net/fes/2.0" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xsi:schemaLocation="http://www.opengis.net/wfs/2.0
http://schemas.opengis.net/wfs/2.0/wfs.xsd" xmlns:xml="http://www.w3.org/XML/1998/namespace"
xmlns:PLU="http://gpu.gouv.fr/PLU" updateSequence="191">
  <ows:ServiceIdentification>
    <ows:Title>Service test profil CNIG WFS 2.0</ows:Title>
    <ows:Abstract>Ce service implémente la version 1.0 du profil CNIG Basic
WFS.</ows:Abstract>
    <ows:Keywords>
      <ows:Keyword>WFS 2.0</ows:Keyword>
      <ows:Keyword>PLU</ows:Keyword>
      <ows:Keyword>PLUi</ows:Keyword>
      <ows:Keyword>usage des sols</ows:Keyword>
      <ows:Keyword>Document d'urbanisme</ows:Keyword>
    </ows:Keywords>
    <ows:ServiceType>WFS</ows:ServiceType>
    <ows:ServiceTypeVersion>2.0.0</ows:ServiceTypeVersion>
    <ows:Fees>NONE</ows:Fees>
    <ows:AccessConstraints>NONE</ows:AccessConstraints>
  </ows:ServiceIdentification>
  <ows:ServiceProvider>
    <ows:ProviderName>IGN</ows:ProviderName>
    <ows:ServiceContact>
      <ows:IndividualName>Dimitri Sarafinof</ows:IndividualName>
      <ows:PositionName>Département Normalisation</ows:PositionName>
      <ows:ContactInfo>
        <ows:Phone>
          <ows:Voice/>
          <ows:Facsimile/>
        </ows:Phone>
        <ows:Address>
          <ows:City>Saint Mandé</ows:City>
          <ows:AdministrativeArea/>
          <ows:PostalCode/>
          <ows:Country>FRANCE</ows:Country>
        </ows:Address>
      </ows:ContactInfo>
    </ows:ServiceContact>
  </ows:ServiceProvider>
  <ows:OperationsMetadata>
    <ows:Operation name="GetCapabilities">
      <ows:DCP>
        <ows:HTTP>
          <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
```

```

        <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
    <ows:Parameter name="AcceptVersions">
        <ows:AllowedValues>
            <ows:Value>1.0.0</ows:Value>
            <ows:Value>1.1.0</ows:Value>
            <ows:Value>2.0.0</ows:Value>
        </ows:AllowedValues>
    </ows:Parameter>
    <ows:Parameter name="AcceptFormats">
        <ows:AllowedValues>
            <ows:Value>text/xml</ows:Value>
        </ows:AllowedValues>
    </ows:Parameter>
</ows:Operation>
<ows:Operation name="DescribeFeatureType">
    <ows:DCP>
        <ows:HTTP>
            <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            </ows:HTTP>
        </ows:DCP>
        <ows:Parameter name="outputFormat">
            <ows:AllowedValues>
                <ows:Value>text/xml; subtype=gml/3.2</ows:Value>
            </ows:AllowedValues>
        </ows:Parameter>
    </ows:Operation>
    <ows:Operation name="GetFeature">
        <ows:DCP>
            <ows:HTTP>
                <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
                <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
                </ows:HTTP>
            </ows:DCP>
            <ows:Parameter name="resultType">
                <ows:AllowedValues>
                    <ows:Value>results</ows:Value>
                    <ows:Value>hits</ows:Value>
                </ows:AllowedValues>
            </ows:Parameter>
            <ows:Parameter name="outputFormat">
                <ows:AllowedValues>
                    <ows:Value>text/xml; subtype=gml/3.2</ows:Value>
                    <ows:Value>GML2</ows:Value>
                    <ows:Value>KML</ows:Value>
                    <ows:Value>SHAPE-ZIP</ows:Value>
                    <ows:Value>application/gml+xml; version=3.2</ows:Value>
                    <ows:Value>application/json</ows:Value>
                    <ows:Value>application/vnd.google-earth.kml
xml</ows:Value>
                    <ows:Value>application/vnd.google-
earth.kml+xml</ows:Value>
                    <ows:Value>csv</ows:Value>
                    <ows:Value>gml3</ows:Value>
                    <ows:Value>gml32</ows:Value>
                    <ows:Value>json</ows:Value>
                </ows:AllowedValues>
            </ows:Parameter>
        </ows:DCP>
    </ows:Operation>
</ows:Operations>
</ows:Service>
</wfs:Capabilities>

```

```

        <ows:Value>text/xml; subtype=gml/2.1.2</ows:Value>
        <ows:Value>text/xml; subtype=gml/3.1.1</ows:Value>
    </ows:AllowedValues>
</ows:Parameter>
<ows:Constraint name="PagingIsTransactionSafe">
    <ows:NoValues/>
    <ows:DefaultValue>FALSE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="CountDefault">
    <ows:NoValues/>
    <ows:DefaultValue>1000000</ows:DefaultValue>
</ows:Constraint>
</ows:Operation>
<ows:Operation name="GetPropertyValue">
    <ows:DCP>
        <ows:HTTP>
            <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
    <ows:Parameter name="resolve">
        <ows:AllowedValues>
            <ows:Value>none</ows:Value>
        </ows:AllowedValues>
    </ows:Parameter>
</ows:Operation>
<ows:Operation name="ListStoredQueries">
    <ows:DCP>
        <ows:HTTP>
            <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
</ows:Operation>
<ows:Operation name="DescribeStoredQueries">
    <ows:DCP>
        <ows:HTTP>
            <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
</ows:Operation>
<ows:Operation name="CreateStoredQuery">
    <ows:DCP>
        <ows:HTTP>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
</ows:Operation>
<ows:Operation name="DropStoredQuery">
    <ows:DCP>
        <ows:HTTP>
            <ows:Get
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
            <ows:Post
xlink:href="http://dgiwg.ign.fr:8080/geoserver/PLU/wfs"/>
        </ows:HTTP>
    </ows:DCP>
</ows:Operation>

```



```

        </ows:HTTP>
    </ows:DCP>
</ows:Operation>
<ows:Constraint name="ImplementsBasicWFS">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsTransactionalWFS">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsLockingWFS">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="KVPEncoding">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="XMLEncoding">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="SOAPEncoding">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsInheritance">
    <ows:NoValues/>
    <ows:DefaultValue>FALSE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsRemoteResolve">
    <ows:NoValues/>
    <ows:DefaultValue>FALSE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsResultPaging">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsStandardJoins">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsSpatialJoins">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsTemporalJoins">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ImplementsFeatureVersioning">
    <ows:NoValues/>
    <ows:DefaultValue>FALSE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="ManageStoredQueries">
    <ows:NoValues/>
    <ows:DefaultValue>TRUE</ows:DefaultValue>
</ows:Constraint>
<ows:Constraint name="PagingIsTransactionSafe">
    <ows:NoValues/>
    <ows:DefaultValue>FALSE</ows:DefaultValue>
</ows:Constraint>

```

```

<ows:Constraint name="QueryExpressions">
  <ows:AllowedValues>
    <ows:Value>wfs:Query</ows:Value>
    <ows:Value>wfs:StoredQuery</ows:Value>
  </ows:AllowedValues>
</ows:Constraint>
</ows:OperationsMetadata>
<FeatureTypeList>
  <FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:DOC_URBA</Name>
    <Title>DOC_URBA</Title>
    <Abstract/>
    <ows:Keywords>
      <ows:Keyword>DOC_URBA</ows:Keyword>
      <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
      <ows:LowerCorner>-1.3630877744659466 -
5.983862881114393</ows:LowerCorner>
      <ows:UpperCorner>-1.3630746457708385 -
5.9838497369111625</ows:UpperCorner>
    </ows:WGS84BoundingBox>
  </FeatureType>
  <FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:DOC_URBA_COM</Name>
    <Title>DOC_URBA_COM</Title>
    <Abstract/>
    <ows:Keywords>
      <ows:Keyword>DOC_URBA_COM</ows:Keyword>
      <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
      <ows:LowerCorner>-1.3630877744659466 -
5.983862881114393</ows:LowerCorner>
      <ows:UpperCorner>-1.3630746457708385 -
5.9838497369111625</ows:UpperCorner>
    </ows:WGS84BoundingBox>
  </FeatureType>
  <FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:HABILLAGE_LIN</Name>
    <Title>HABILLAGE_LIN</Title>
    <Abstract/>
    <ows:Keywords>
      <ows:Keyword>HABILLAGE_LIN</ows:Keyword>
      <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
      <ows:LowerCorner>-1.5330646832962838
47.97267020055861</ows:LowerCorner>
      <ows:UpperCorner>-1.4622245342459093
48.03237798465499</ows:UpperCorner>
    </ows:WGS84BoundingBox>
  </FeatureType>
  <FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:HABILLAGE_PCT</Name>
    <Title>HABILLAGE_PCT</Title>
    <Abstract/>
    <ows:Keywords>
      <ows:Keyword>features</ows:Keyword>
      <ows:Keyword>HABILLAGE_PCT</ows:Keyword>
    </ows:Keywords>
  </FeatureType>

```



```

</ows:Keywords>
<DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
<ows:WGS84BoundingBox>
  <ows:LowerCorner>-1.5260496077752048
47.97432860851448</ows:LowerCorner>
  <ows:UpperCorner>-1.4615705403491355
48.02630914678309</ows:UpperCorner>
</ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
  <Name>PLU:HABILLAGE_SURF</Name>
  <Title>HABILLAGE_SURF</Title>
  <Abstract/>
  <ows:Keywords>
    <ows:Keyword>HABILLAGE_SURF</ows:Keyword>
    <ows:Keyword>features</ows:Keyword>
  </ows:Keywords>
  <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
  <ows:WGS84BoundingBox>
    <ows:LowerCorner>-1.3630877744659466 -
5.983862881114393</ows:LowerCorner>
    <ows:UpperCorner>-1.3630746457708385 -
5.9838497369111625</ows:UpperCorner>
  </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
  <Name>PLU:HABILLAGE_TXT</Name>
  <Title>HABILLAGE_TXT</Title>
  <Abstract/>
  <ows:Keywords>
    <ows:Keyword>HABILLAGE_TXT</ows:Keyword>
    <ows:Keyword>features</ows:Keyword>
  </ows:Keywords>
  <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
  <ows:WGS84BoundingBox>
    <ows:LowerCorner>-1.5360365123735082
47.97204231427869</ows:LowerCorner>
    <ows:UpperCorner>-1.4555750609587876
48.03293247096632</ows:UpperCorner>
  </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
  <Name>PLU:INFO_LIN</Name>
  <Title>INFO_LIN</Title>
  <Abstract/>
  <ows:Keywords>
    <ows:Keyword>features</ows:Keyword>
    <ows:Keyword>INFO_LIN</ows:Keyword>
  </ows:Keywords>
  <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
  <ows:WGS84BoundingBox>
    <ows:LowerCorner>-1.3630877744659466 -
5.983862881114393</ows:LowerCorner>
    <ows:UpperCorner>-1.3630746457708385 -
5.9838497369111625</ows:UpperCorner>
  </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
  <Name>PLU:INFO_PCT</Name>
  <Title>INFO_PCT</Title>
  <Abstract/>
  <ows:Keywords>
    <ows:Keyword>INFO_PCT</ows:Keyword>

```

```

        <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.3630877744659466 -
5.983862881114393</ows:LowerCorner>
        <ows:UpperCorner>-1.3630746457708385 -
5.9838497369111625</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:INFO_SURF</Name>
    <Title>INFO_SURF</Title>
    <Abstract/>
    <ows:Keywords>
        <ows:Keyword>features</ows:Keyword>
        <ows:Keyword>INFO_SURF</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.5356957416514687
47.9760160232093</ows:LowerCorner>
        <ows:UpperCorner>-1.4641251478829735
48.031363976953244</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:PRESCRIPTION_LIN</Name>
    <Title>PRESCRIPTION_LIN</Title>
    <Abstract/>
    <ows:Keywords>
        <ows:Keyword>PRESCRIPTION_LIN</ows:Keyword>
        <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.5347104424017988
47.972091679615026</ows:LowerCorner>
        <ows:UpperCorner>-1.461836828367775
48.03420610803009</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:PRESCRIPTION_PCT</Name>
    <Title>PRESCRIPTION_PCT</Title>
    <Abstract/>
    <ows:Keywords>
        <ows:Keyword>PRESCRIPTION_PCT</ows:Keyword>
        <ows:Keyword>features</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.3630812107743386 -
5.983856309670104</ows:LowerCorner>
        <ows:UpperCorner>-1.3630812094614702 -
5.983856308355682</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:PRESCRIPTION_SURF</Name>
    <Title>PRESCRIPTION_SURF</Title>
    <Abstract/>
    <ows:Keywords>

```

```

        <ows:Keyword>features</ows:Keyword>
        <ows:Keyword>PRESCRIPTION_SURF</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.528842710397211
47.97457492862828</ows:LowerCorner>
        <ows:UpperCorner>-1.4552234443747798
48.028063001717946</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
<FeatureType xmlns:PLU="http://gpu.gouv.fr/PLU">
    <Name>PLU:ZONE_URBA</Name>
    <Title>ZONE_URBA</Title>
    <Abstract/>
    <ows:Keywords>
        <ows:Keyword>features</ows:Keyword>
        <ows:Keyword>ZONE_URBA</ows:Keyword>
    </ows:Keywords>
    <DefaultCRS>urn:ogc:def:crs:EPSG::2154</DefaultCRS>
    <ows:WGS84BoundingBox>
        <ows:LowerCorner>-1.5379731230324296
47.96955552771392</ows:LowerCorner>
        <ows:UpperCorner>-1.45482898261575
48.03464359609464</ows:UpperCorner>
    </ows:WGS84BoundingBox>
</FeatureType>
</FeatureTypeList>
<fes:Filter_Capabilities>
    <fes:Conformance>
        <fes:Constraint name="ImplementsQuery">
            <ows:NoValues/>
            <ows:DefaultValue>TRUE</ows:DefaultValue>
        </fes:Constraint>
        <fes:Constraint name="ImplementsAdHocQuery">
            <ows:NoValues/>
            <ows:DefaultValue>TRUE</ows:DefaultValue>
        </fes:Constraint>
        <fes:Constraint name="ImplementsFunctions">
            <ows:NoValues/>
            <ows:DefaultValue>TRUE</ows:DefaultValue>
        </fes:Constraint>
        <fes:Constraint name="ImplementsMinStandardFilter">
            <ows:NoValues/>
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            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="cropShape">
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    </fes:Arguments>
</fes:Function>
<fes:Function name="crosses">

```

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</fes>Returns>xs:boolean</fes>Returns>
</fes:Arguments>
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  <fes:Argument name="geometry2">
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</fes:Function>
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    <fes:Argument name="date">
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```

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```

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```



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  <fes>Returns>xs:string</fes>Returns>
  <fes:Arguments>
    <fes:Argument name="geometry">
      <fes:Type>gml:AbstractGeometryType</fes:Type>
    </fes:Argument>
  </fes:Arguments>
</fes:Function>
<fes:Function name="Transform">
  <fes>Returns>xs:string</fes>Returns>
  <fes:Arguments>
    <fes:Argument name="features">
      <fes:Type>xs:string</fes:Type>
    </fes:Argument>
    <fes:Argument name="transform">
      <fes:Type>xs:string</fes:Type>
    </fes:Argument>
  </fes:Arguments>
</fes:Function>
<fes:Function name="union">
  <fes>Returns>xs:string</fes>Returns>
  <fes:Arguments>
    <fes:Argument name="geometry">
      <fes:Type>gml:AbstractGeometryType</fes:Type>
    </fes:Argument>
    <fes:Argument name="geometry">
      <fes:Type>gml:AbstractGeometryType</fes:Type>
    </fes:Argument>
  </fes:Arguments>
</fes:Function>
<fes:Function name="UnionFeatureCollection">
  <fes>Returns>xs:string</fes>Returns>
  <fes:Arguments>
    <fes:Argument name="first">
      <fes:Type>xs:string</fes:Type>
  </fes:Arguments>

```

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        </fes:Argument>
        <fes:Argument name="second">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
    </fes:Arguments>
</fes:Function>
<fes:Function name="Unique">
    <fes:Returns>xs:string</fes:Returns>
    <fes:Arguments>
        <fes:Argument name="features">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="attribute">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
    </fes:Arguments>
</fes:Function>
<fes:Function name="UniqueInterval">
    <fes:Returns>xs:string</fes:Returns>
    <fes:Arguments>
        <fes:Argument name="value">
            <fes:Type>xs:double</fes:Type>
        </fes:Argument>
        <fes:Argument name="classes">
            <fes:Type>xs:int</fes:Type>
        </fes:Argument>
    </fes:Arguments>
</fes:Function>
<fes:Function name="VectorToRaster">
    <fes:Returns>xs:string</fes:Returns>
    <fes:Arguments>
        <fes:Argument name="features">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="rasterWidth">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="rasterHeight">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="title">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="attribute">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="bounds">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
    </fes:Arguments>
</fes:Function>
<fes:Function name="VectorZonalStatistics">
    <fes:Returns>xs:string</fes:Returns>
    <fes:Arguments>
        <fes:Argument name="data">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="dataAttribute">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
        <fes:Argument name="zones">
            <fes:Type>xs:string</fes:Type>
        </fes:Argument>
    </fes:Arguments>

```

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        </fes:Arguments>
    </fes:Function>
    <fes:Function name="vertices">
        <fes:Returns>xs:string</fes:Returns>
        <fes:Arguments>
            <fes:Argument name="geometry">
                <fes:Type>gml:AbstractGeometryType</fes:Type>
            </fes:Argument>
        </fes:Arguments>
    </fes:Function>
    <fes:Function name="within">
        <fes:Returns>xs:boolean</fes:Returns>
        <fes:Arguments>
            <fes:Argument name="geometry">
                <fes:Type>gml:AbstractGeometryType</fes:Type>
            </fes:Argument>
            <fes:Argument name="geometry">
                <fes:Type>gml:AbstractGeometryType</fes:Type>
            </fes:Argument>
        </fes:Arguments>
    </fes:Function>
</fes:Functions>
</fes:Filter_Capabilities>
</wfs:WFS_Capabilities>

```

C.2. Opération DescribeFeatureType

Les réponses à cette opération sont standardisées en Annexe B.

C.3. GetPropertyValue

Cette opération peut être utilisée pour récupérer uniquement certains attributs (par exemple les identifiants des PLU/CC/SUP) afin d'identifier les nouvelles données.

Exemple de requête :

http://dgiwg.ign.fr:8080/geoserver/PLU/wfs?service=WFS&version=2.0.0&request=GetPropertyValue&typenames=PLU:DOC_URBA&valueReference=IDURBA

Exemple de réponse:

ajouter réponse