

## ALCUNI INDIRIZZI PER LE PROPOSTE GESTIONALI

### RICAVATI DA COMUNICAZIONE DEL PRODUTTORE SOFTWARE CITY WORKS

A seguito di alcune richieste pervenute dai partecipanti alle sedute di presa visione, si fornisce a tutte le ditte partecipanti alla presa visione quanto segue.

Per quanto riguarda la gara di gestione per l'illuminazione pubblica, potranno essere prese in considerazione le seguenti funzionalità:

- 1) Gestione e aggiornamento cartografico e alfanumerico degli impianti a rete nel suo complesso;
- 2) Inserimento dei piani e dei tempi di manutenzione ordinaria degli impianti di pubblica illuminazione;
- 3) Gestione delle segnalazioni di intervento;
- 4) Aggiornamento e ampliamento degli impianti di pubblica illuminazione.

### **Gestione e aggiornamento impianti e punti luce**

Il Comune di San Benedetto del Tronto ha già elaborato una cartografia in formato Autocad DWG dove sono geo referenziati i punti luce e dove sono tracciate le linee di alimentazione degli impianti. È contenuta, inoltre, una descrizione sotto forma di attributi delle geometrie che riporta il nome del punto luce.

Riportiamo un esempio indicativo di informazioni che saranno raccolte e continuamente aggiornate a cura dell'aggiudicatario:

- 1) Nome impianto
- 2) Classificazione tipo impianto
- 3) Classe di illuminazione
- 4) Posizione palo
- 5) Specifica palo
- 6) Descrizione lampada
- 7) Componenti impianto illuminazione (sorgenti luminose, parzializzazione)
- 8) Tipologia lampade
- 9) Tipo flusso (in lumen)
- 10) Attacco lampada
- 11) Efficienza luminosa
- 12) Resa cromatica

- 13) Temperatura colore
- 14) Vita media
- 15) Presenza di Hg Pb
- 16) Tipologia impianto illuminante
- 17) Tipologia di supporti
- 18) Disposizione delle sorgenti luminose
- 19) Tipo di alimentazione elettrica
- 20) Gestione e tempi delle manutenzioni periodiche
- 21) Gestione degli orari di funzionamento
- 22) Apparecchi accessori (ad es. regolatori di flusso)
- 23) Logica di connessione all'impianto.

Il Comune di San Benedetto del Tronto fornirà alla Ditta aggiudicataria la cartografia di riferimento in formato Autocad Map, Esri o MapInfo e su i layer definiti contenenti la strutturazione dei dati sarà raccolta e aggiornata la banca dati a cura dell' aggiudicatario.

La Ditta aggiudicataria potrà utilizzare qualsiasi software GIS per aggiornare queste informazioni, assicurandosi che le coordinate utilizzate per la raccolta dei nuovi punti luce e degli impianti siano compatibili con la cartografia di base comunale. A questo proposito il Comune metterà a disposizione un sito dove testare la pubblicazione gli aggiornamenti dei layer e, qualora gli aggiornamenti siano corretti, pubblicare nel sistema di produzione del Comune i dati verificati.

### **Inserimento dei piani e dei tempi di manutenzione ordinaria**

All'interno del sistema potrà essere proposta scheda dedicata all'interno del sistema City Works per l'inserimento dei piani di manutenzione ordinaria degli impianti.

### **Gestione segnalazioni**

Il Comune ha già realizzato all'interno di City Works il sistema di gestione delle segnalazioni, realizzato per poter essere utilizzato sia dalla Polizia Municipale che raccoglie anche le richieste pervenute telefonicamente, sia dagli altri settori comunali. Con lo stesso sistema è possibile produrre una scheda di intervento che contiene la localizzazione, i tempi previsti di intervento, i tempi di esecuzione effettiva e le modalità di ripristino utilizzate. Con questo sistema gestionale il Comune è in grado di monitorare la Global Service e di poter eseguire analisi statistiche sui tempi di intervento, il numero di segnalazioni pervenute e soprattutto di poter coordinare gli interventi di emergenza con le altre attività già programmate sul territorio che coinvolgono la gestione della viabilità.

## Aggiornamento e nuovi progetti

Per poter ridurre il disagio sulla mobilità ed eventuali criticità che derivano dal mancato coordinamento degli interventi, il Comune utilizza sempre la piattaforma City Works per tutti gli interventi programmati. La Ditta aggiudicataria sarà, quindi, tenuta a inserire all'interno del sistema tutti i progetti il cui inserimento è già previsto in configurazione attuale ( ad esempio: nuovi punti luce, nuovi impianti, riqualificazioni ecc.)

## Interfacciamento con gli impianti

Nel caso gli impianti lo consentano, tutti i dati in tempo reale sul funzionamento degli impianti saranno disponibili e consultabili dal Comune all'interno del sistema City Works.

## Interfacce web service già sviluppate su City Works e specifiche WSDL

Per qualsiasi tipo di intervento, per le segnalazioni introdotte dal Comune di San Benedetto del Tronto, per il coordinamento di tutti gli interventi del territorio e per poter richiedere un'ordinanza, è necessario che la Ditta aggiudicataria introduca le proprie richieste di intervento all'interno del sistema City Works. Questo può essere eseguito manualmente dalle interfacce web già sviluppate e disponibili, oppure (preferibile) tramite collegamento dedicato con i web service già sviluppati dal Consorzio Ferrara Ricerche – WebGISLab.

Per inserire i progetti e le fasi nel sistema CityWorks è necessario utilizzare le chiamate ai seguenti metodi:

1. `getSearchResults`: che serve a ricercare le fasi che esistono nel sistema;
2. `setProject`: permette di creare un nuovo progetto;
3. `getProject`: permette di ricercare un progetto nel sistema tramite l'identificatore;
4. `setPhase`: permette di creare e aggiornare una fase di progetto;
5. `getPhase`: permette di ricercare una fase, o crearne una nuova in base alla tipologia;
6. `BuildWKBPolygon`: permette la creazione di una geometria.

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**<http://cityworks.comunesbt.it/wsPhase/DBFunctions.aspx>**

### 1. `getSearchResults`

Nel sistema CityWorks è possibile ricercare un progetto in base a diversi filtri di ricerca caratterizzanti le sue fasi componenti. Il metodo da utilizzare è `getSearchResults` con i seguenti parametri: titolo e descrizione progetto, categoria, date di inizio/fine lavori previste e effettive, stato di avanzamento dei lavori, assenso del comune, numero progressivo, ente, ultimo utente modificatore, tipi d'intervento, strada, circoscrizione, impresa esecutrice.

`GetSearchResults` restituisce le principali informazioni di tutte le fasi di progetto consultabili dall'utente che soddisfano i criteri inseriti: numero progressivo, titolo progetto, descrizione della fase, date di inizio e fine lavori previste e effettive, strade interessate, impresa esecutrice, categoria, Ente, utente modificatore, stato di avanzamento dei lavori, assenso del comune.

## SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.1. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsPhase/DBFunctions.aspx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "WSPhase/getSearchResults"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getSearchResults xmlns="WSPhase">
      <ID_Project>int</ID_Project>
      <ProjectName>string</ProjectName>
      <ID_Type_Category>
        <string>string</string>
        <string>string</string>
      </ID_Type_Category>
      <InitDateFrom>dateTime</InitDateFrom>
      <InitDateTo>dateTime</InitDateTo>
      <EndDateFrom>dateTime</EndDateFrom>
      <EndDateTo>dateTime</EndDateTo>
      <arrayState>
        <string>string</string>
        <string>string</string>
      </arrayState>
      <arrayRequest_Accepted>
        <string>string</string>
        <string>string</string>
      </arrayRequest_Accepted>
      <prog_num>string</prog_num>
      <entity>string</entity>
      <user>string</user>
      <Request_Sent_DateFrom>dateTime</Request_Sent_DateFrom>
      <request_sent_dateTo>dateTime</request_sent_dateTo>
      <services>
        <string>string</string>
        <string>string</string>
      </services>
      <StreetName>string</StreetName>
      <SearchHist>boolean</SearchHist>
      <circostrizione>
        <string>string</string>
        <string>string</string>
      </circostrizione>
      <project>string</project>
      <executor>string</executor>
      <Resolving_Phase>int</Resolving_Phase>
    </getSearchResults>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

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

```

<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getSearchResultsResponse xmlns="WSPhase">
      <getSearchResultsResult>
        <xsd:schema>schema</xsd:schema>xml</getSearchResultsResult>
      </getSearchResultsResponse>
    </soap:Body>
  </soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getSearchResults xmlns="WSPhase">
      <ID_Project>int</ID_Project>
      <ProjectName>string</ProjectName>
      <ID_Type_Category>
        <string>string</string>
        <string>string</string>
      </ID_Type_Category>
      <InitDateFrom>dateTime</InitDateFrom>
      <InitDateTo>dateTime</InitDateTo>
      <EndDateFrom>dateTime</EndDateFrom>
      <EndDateTo>dateTime</EndDateTo>
      <arrayState>
        <string>string</string>
        <string>string</string>
      </arrayState>
      <arrayRequest_Accepted>
        <string>string</string>
        <string>string</string>
      </arrayRequest_Accepted>
      <prog_num>string</prog_num>
      <entity>string</entity>
      <user>string</user>
      <Request_Sent_DateFrom>dateTime</Request_Sent_DateFrom>
      <request_sent_dateTo>dateTime</request_sent_dateTo>
      <services>
        <string>string</string>
        <string>string</string>
      </services>
      <StreetName>string</StreetName>
      <SearchHist>boolean</SearchHist>
      <circostrizione>
        <string>string</string>
        <string>string</string>
      </circostrizione>
      <project>string</project>
      <executor>string</executor>

```

```
<Resolving_Phase>int</Resolving_Phase>
</getSearchResults>
</soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getSearchResultsResponse xmlns="WSPhase">
      <getSearchResultsResult>
        <xsd:schema>schema</xsd:schema>xml</getSearchResultsResult>
      </getSearchResultsResponse>
    </soap12:Body>
  </soap12:Envelope>
```

---

## 2. setProject

Il metodo setProject permette di creare o modificare un progetto nel sistema CityWorks.

Riceve in input l'identificativo del progetto, la descrizione, l'utenza del gruppo che ha eseguito l'operazione, un booleano (deleted = 0 – 1 è per la cancellazione), la data di modifica e il numero dell'ultima fase modificata.

Se ci sono campi obbligatori non compilati la funzione ritorna -1, se l'utente collegato non ha i permessi per modificare il progetto ritorna -2, se invece l'operazione va a buon fine ritorna il progetto salvato.

### SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.1. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "WSPhase/setProject"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <setProject xmlns="WSPhase">
      <nProject>
        <ID_Project>int</ID_Project>
        <Description>string</Description>
        <FK_User_Group>int</FK_User_Group>
        <Deleted>boolean</Deleted>
        <Date_Mod>dateTime</Date_Mod>
        <Max_Phase_Mod>dateTime</Max_Phase_Mod>
      </nProject>
    </setProject>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <setProjectResponse xmlns="WSPhase">
      <setProjectResult>int</setProjectResult>
    <nProject>
      <ID_Project>int</ID_Project>
      <Description>string</Description>
      <FK_User_Group>int</FK_User_Group>
      <Deleted>boolean</Deleted>
      <Date_Mod>dateTime</Date_Mod>
    </nProject>
  </soap:Body>
</soap:Envelope>
```

```

    <Max_Phase_Mod>dateTime</Max_Phase_Mod>
  </nProject>
</setProjectResponse>
</soap:Body>
</soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <setProject xmlns="WSPhase">
      <nProject>
        <ID_Project>int</ID_Project>
        <Description>string</Description>
        <FK_User_Group>int</FK_User_Group>
        <Deleted>boolean</Deleted>
        <Date_Mod>dateTime</Date_Mod>
        <Max_Phase_Mod>dateTime</Max_Phase_Mod>
      </nProject>
    </setProject>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <setProjectResponse xmlns="WSPhase">
      <setProjectResult>int</setProjectResult>
      <nProject>
        <ID_Project>int</ID_Project>
        <Description>string</Description>
        <FK_User_Group>int</FK_User_Group>
        <Deleted>boolean</Deleted>
        <Date_Mod>dateTime</Date_Mod>
        <Max_Phase_Mod>dateTime</Max_Phase_Mod>
      </nProject>
    </setProjectResponse>
  </soap12:Body>
</soap12:Envelope>

```



---

### 3. getProjects

Tramite il metodo getProjects il sistema CityWorks permette di cercare un progetto tramite l'identificatore (ID\_Project).

Ritorna i dati del progetto identificato da ID\_Project: l'identificativo del progetto, la descrizione, l'utenza del gruppo che ha eseguito l'operazione, un booleano che ne indica lo stato di cancellazione, la data di modifica e il numero dell'ultima fase modificata.

Se ID\_Project è impostato a 0, il metodo ritorna tutti i progetti consultabili dall'utente che esegue la richiesta (cioè tutti i progetti presenti nel suo gruppo di appartenenza).

#### SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.1. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "WSPhase/getProjects"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getProjects xmlns="WSPhase">
      <id_project>int</id_project>
    </getProjects>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getProjectsResponse xmlns="WSPhase">
      <getProjectsResult>
        <Project>
          <ID_Project>int</ID_Project>
          <Description>string</Description>
          <FK_User_Group>int</FK_User_Group>
          <Deleted>boolean</Deleted>
          <Date_Mod>dateTime</Date_Mod>
          <Max_Phase_Mod>dateTime</Max_Phase_Mod>
        </Project>
        <Project>
          <ID_Project>int</ID_Project>
          <Description>string</Description>
          <FK_User_Group>int</FK_User_Group>
          <Deleted>boolean</Deleted>
        </Project>
      </getProjectsResult>
    </getProjectsResponse>
  </soap:Body>
</soap:Envelope>
```

```

        <Date_Mod>dateTime</Date_Mod>
        <Max_Phase_Mod>dateTime</Max_Phase_Mod>
    </Project>
</getProjectsResult>
</getProjectsResponse>
</soap:Body>
</soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getProjects xmlns="WSPhase">
      <id_project>int</id_project>
    </getProjects>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getProjectsResponse xmlns="WSPhase">
      <getProjectsResult>
        <Project>
          <ID_Project>int</ID_Project>
          <Description>string</Description>
          <FK_User_Group>int</FK_User_Group>
          <Deleted>boolean</Deleted>
          <Date_Mod>dateTime</Date_Mod>
          <Max_Phase_Mod>dateTime</Max_Phase_Mod>
        </Project>
        <Project>
          <ID_Project>int</ID_Project>
          <Description>string</Description>
          <FK_User_Group>int</FK_User_Group>
          <Deleted>boolean</Deleted>
          <Date_Mod>dateTime</Date_Mod>
          <Max_Phase_Mod>dateTime</Max_Phase_Mod>
        </Project>
      </getProjectsResult>
    </getProjectsResponse>
  </soap12:Body>
</soap12:Envelope>

```

---

## 4. setPhase

Il metodo setPhase permette di creare e aggiornare una specifica fase di progetto.

SetPhase riceve in input i dati della fase da creare o salvare (es. Numero progressivo, Ente, strade interessate, descrizione dei lavori, tipo d'intervento, allegati, date di inizio e fine lavori (previste e effettive), progettista, direttore dei lavori, committente, impresa esecutrice,...).

Se l'utente non ha il permesso di eseguire l'operazione, cioè non fa parte del gruppo di lavoro per il progetto in questione, non viene eseguita alcuna operazione e il metodo restituisce -1, altrimenti restituisce la fase salvata.

### SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.1. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "WSPhase/setPhase"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <setPhase xmlns="WSPhase">
      <histVal>int</histVal>
      <nPhase>
        <ID_Phase_HIST>int</ID_Phase_HIST>
        <Prog_Num>string</Prog_Num>
        <Entity>string</Entity>
        <FK_Work_Streets>int</FK_Work_Streets>
        <FK_Service>int</FK_Service>
        <Description>string</Description>
        <FK_File_Work>int</FK_File_Work>
        <Request_Sent_Date>dateTime</Request_Sent_Date>
        <Designer_Name>string</Designer_Name>
        <Designer_Tel>string</Designer_Tel>
        <Designer_Email>string</Designer_Email>
        <Excavation_Length>decimal</Excavation_Length>
        <Excavation_Width>decimal</Excavation_Width>
        <Cost>decimal</Cost>
        <Insurance_Percent>decimal</Insurance_Percent>
        <Estimated_Time>int</Estimated_Time>
        <Estimated_Init_Date>dateTime</Estimated_Init_Date>
        <Estimated_End_Date>dateTime</Estimated_End_Date>
        <Manager_Name>string</Manager_Name>
        <Manager_Tel>string</Manager_Tel>
        <Manager_Email>string</Manager_Email>
        <Security_Risp_Name>string</Security_Risp_Name>
        <Security_Risp_Tel>string</Security_Risp_Tel>
        <Security_Risp_Email>string</Security_Risp_Email>
        <Executor_Company>string</Executor_Company>
        <Executor_Assist_Name>string</Executor_Assist_Name>
      </nPhase>
    </setPhase>
  </soap:Body>
</soap:Envelope>
```

```
<Executor_Assist_Tel>string</Executor_Assist_Tel>
<Executor_Assist_Email>string</Executor_Assist_Email>
<Notes>string</Notes>
<Request_Arrival_Date>dateTime</Request_Arrival_Date>
<Request_Arrival_PG>string</Request_Arrival_PG>
<PG_Date>dateTime</PG_Date>
<Request_Creation_Date>dateTime</Request_Creation_Date>
<Request_Creation_PG>string</Request_Creation_PG>
<Authorization_Date>dateTime</Authorization_Date>
<Ordinance_Date>dateTime</Ordinance_Date>
<FK_File_Ordinance>int</FK_File_Ordinance>
<Time_Scale>int</Time_Scale>
<Real_Init_Date>dateTime</Real_Init_Date>
<Postponed>int</Postponed>
<Postponed_Motiv>string</Postponed_Motiv>
<FK_Comment>int</FK_Comment>
<Location_Accepted>int</Location_Accepted>
<Location_Accepted_Comment>int</Location_Accepted_Comment>
<Development_Accepted>int</Development_Accepted>
<Development_Accepted_Comment>int</Development_Accepted_Comment>
<Request_Accepted>int</Request_Accepted>
<Real_End_Date>dateTime</Real_End_Date>
<Usable_Date>dateTime</Usable_Date>
<FK_File_Approval_Date>int</FK_File_Approval_Date>
<Test_Approval_Date>dateTime</Test_Approval_Date>
<Z_Order>int</Z_Order>
<PhaseBlockLocation>boolean</PhaseBlockLocation>
<PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circoscrizione>string</Circoscrizione>
<FieldChanges>string</FieldChanges>
```

```
    <FK_Resolving_Phase>int</FK_Resolving_Phase>
    <Insurance_Cost>decimal</Insurance_Cost>
  </nPhase>
</setPhase>
</soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length
```

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <setPhaseResponse xmlns="WSPhase">
      <setPhaseResult>int</setPhaseResult>
      <histVal>int</histVal>
      <nPhase>
        <ID_Phase_HIST>int</ID_Phase_HIST>
        <Prog_Num>string</Prog_Num>
        <Entity>string</Entity>
        <FK_Work_Streets>int</FK_Work_Streets>
        <FK_Service>int</FK_Service>
        <Description>string</Description>
        <FK_File_Work>int</FK_File_Work>
        <Request_Sent_Date>dateTime</Request_Sent_Date>
        <Designer_Name>string</Designer_Name>
        <Designer_Tel>string</Designer_Tel>
        <Designer_Email>string</Designer_Email>
        <Excavation_Length>decimal</Excavation_Length>
        <Excavation_Width>decimal</Excavation_Width>
        <Cost>decimal</Cost>
        <Insurance_Percent>decimal</Insurance_Percent>
        <Estimated_Time>int</Estimated_Time>
        <Estimated_Init_Date>dateTime</Estimated_Init_Date>
        <Estimated_End_Date>dateTime</Estimated_End_Date>
        <Manager_Name>string</Manager_Name>
        <Manager_Tel>string</Manager_Tel>
        <Manager_Email>string</Manager_Email>
        <Security_Risp_Name>string</Security_Risp_Name>
        <Security_Risp_Tel>string</Security_Risp_Tel>
        <Security_Risp_Email>string</Security_Risp_Email>
        <Executor_Company>string</Executor_Company>
        <Executor_Assist_Name>string</Executor_Assist_Name>
        <Executor_Assist_Tel>string</Executor_Assist_Tel>
        <Executor_Assist_Email>string</Executor_Assist_Email>
        <Notes>string</Notes>
        <Request_Arrival_Date>dateTime</Request_Arrival_Date>
        <Request_Arrival_PG>string</Request_Arrival_PG>
        <PG_Date>dateTime</PG_Date>
        <Request_Creation_Date>dateTime</Request_Creation_Date>
        <Request_Creation_PG>string</Request_Creation_PG>
        <Authorization_Date>dateTime</Authorization_Date>
        <Ordinance_Date>dateTime</Ordinance_Date>
        <FK_File_Ordinance>int</FK_File_Ordinance>
        <Time_Scale>int</Time_Scale>
        <Real_Init_Date>dateTime</Real_Init_Date>
        <Postponed>int</Postponed>
        <Postponed_Motiv>string</Postponed_Motiv>
        <FK_Comment>int</FK_Comment>
        <Location_Accepted>int</Location_Accepted>
```

```

<Location_Accepted_Comment>int</Location_Accepted_Comment>
<Development_Accepted>int</Development_Accepted>
<Development_Accepted_Comment>int</Development_Accepted_Comment>
<Request_Accepted>int</Request_Accepted>
<Real_End_Date>dateTime</Real_End_Date>
<Usable_Date>dateTime</Usable_Date>
<FK_File_Approval_Date>int</FK_File_Approval_Date>
<Test_Approval_Date>dateTime</Test_Approval_Date>
<Z_Order>int</Z_Order>
<PhaseBlockLocation>boolean</PhaseBlockLocation>
<PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circoscrizione>string</Circoscrizione>
<FieldChanges>string</FieldChanges>
<FK_Resolving_Phase>int</FK_Resolving_Phase>
<Insurance_Cost>decimal</Insurance_Cost>
</nPhase>
</setPhaseResponse>
</soap:Body>
</soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

```

```
<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <setPhase xmlns="WSPhase">
      <histVal>int</histVal>
      <nPhase>
        <ID_Phase_HIST>int</ID_Phase_HIST>
        <Prog_Num>string</Prog_Num>
        <Entity>string</Entity>
        <FK_Work_Streets>int</FK Work_Streets>
        <FK_Service>int</FK Service>
        <Description>string</Description>
        <FK_File_Work>int</FK File_Work>
        <Request_Sent_Date>dateTime</Request_Sent_Date>
        <Designer_Name>string</Designer_Name>
        <Designer_Tel>string</Designer_Tel>
        <Designer_Email>string</Designer_Email>
        <Excavation_Length>decimal</Excavation_Length>
        <Excavation_Width>decimal</Excavation_Width>
        <Cost>decimal</Cost>
        <Insurance_Percent>decimal</Insurance_Percent>
        <Estimated_Time>int</Estimated_Time>
        <Estimated_Init_Date>dateTime</Estimated_Init_Date>
        <Estimated_End_Date>dateTime</Estimated_End_Date>
        <Manager_Name>string</Manager_Name>
        <Manager_Tel>string</Manager_Tel>
        <Manager_Email>string</Manager_Email>
        <Security_Risp_Name>string</Security_Risp_Name>
        <Security_Risp_Tel>string</Security_Risp_Tel>
        <Security_Risp_Email>string</Security_Risp_Email>
        <Executor_Company>string</Executor_Company>
        <Executor_Assist_Name>string</Executor_Assist_Name>
        <Executor_Assist_Tel>string</Executor_Assist_Tel>
        <Executor_Assist_Email>string</Executor_Assist_Email>
        <Notes>string</Notes>
        <Request_Arrival_Date>dateTime</Request_Arrival_Date>
        <Request_Arrival_PG>string</Request_Arrival_PG>
        <PG_Date>dateTime</PG_Date>
        <Request_Creation_Date>dateTime</Request_Creation_Date>
        <Request_Creation_PG>string</Request_Creation_PG>
        <Authorization_Date>dateTime</Authorization_Date>
        <Ordinance_Date>dateTime</Ordinance_Date>
        <FK_File_Ordinance>int</FK File_Ordinance>
        <Time_Scale>int</Time_Scale>
        <Real_Init_Date>dateTime</Real_Init_Date>
        <Postponed>int</Postponed>
        <Postponed_Motiv>string</Postponed_Motiv>
        <FK_Comment>int</FK_Comment>
        <Location_Accepted>int</Location_Accepted>
        <Location_Accepted_Comment>int</Location_Accepted_Comment>
        <Development_Accepted>int</Development_Accepted>
        <Development_Accepted_Comment>int</Development_Accepted_Comment>
        <Request_Accepted>int</Request_Accepted>
        <Real_End_Date>dateTime</Real_End_Date>
        <Usable_Date>dateTime</Usable_Date>
        <FK_File_Approval_Date>int</FK File Approval_Date>
        <Test_Approval_Date>dateTime</Test_Approval_Date>
        <Z_Order>int</Z_Order>
        <PhaseBlockLocation>boolean</PhaseBlockLocation>
        <PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
      </nPhase>
    </setPhase>
  </soap12:Body>
</soap12:Envelope>
```

```

<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circolazione>string</Circolazione>
<FieldChanges>string</FieldChanges>
<FK_Resolving_Phase>int</FK_Resolving_Phase>
<Insurance_Cost>decimal</Insurance_Cost>
</nPhase>
</setPhase>
</soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <setPhaseResponse xmlns="WSPhase">
      <setPhaseResult>int</setPhaseResult>
      <histVal>int</histVal>
    <nPhase>
      <ID_Phase_HIST>int</ID_Phase_HIST>
      <Prog_Num>string</Prog_Num>
      <Entity>string</Entity>
      <FK_Work_Streets>int</FK_Work_Streets>
      <FK_Service>int</FK_Service>
      <Description>string</Description>
      <FK_File_Work>int</FK_File_Work>
      <Request_Sent_Date>dateTime</Request_Sent_Date>
      <Designer_Name>string</Designer_Name>
    </nPhase>
  </setPhaseResponse>
</soap12:Body>
</soap12:Envelope>

```



```
<Designer_Tel>string</Designer_Tel>
<Designer_Email>string</Designer_Email>
<Excavation_Length>decimal</Excavation_Length>
<Excavation_Width>decimal</Excavation_Width>
<Cost>decimal</Cost>
<Insurance_Percent>decimal</Insurance_Percent>
<Estimated_Time>int</Estimated_Time>
<Estimated_Init_Date>dateTime</Estimated_Init_Date>
<Estimated_End_Date>dateTime</Estimated_End_Date>
<Manager_Name>string</Manager_Name>
<Manager_Tel>string</Manager_Tel>
<Manager_Email>string</Manager_Email>
<Security_Risp_Name>string</Security_Risp_Name>
<Security_Risp_Tel>string</Security_Risp_Tel>
<Security_Risp_Email>string</Security_Risp_Email>
<Executor_Company>string</Executor_Company>
<Executor_Assist_Name>string</Executor_Assist_Name>
<Executor_Assist_Tel>string</Executor_Assist_Tel>
<Executor_Assist_Email>string</Executor_Assist_Email>
<Notes>string</Notes>
<Request_Arrival_Date>dateTime</Request_Arrival_Date>
<Request_Arrival_PG>string</Request_Arrival_PG>
<PG_Date>dateTime</PG_Date>
<Request_Creation_Date>dateTime</Request_Creation_Date>
<Request_Creation_PG>string</Request_Creation_PG>
<Authorization_Date>dateTime</Authorization_Date>
<Ordinance_Date>dateTime</Ordinance_Date>
<FK_File_Ordinance>int</FK_File_Ordinance>
<Time_Scale>int</Time_Scale>
<Real_Init_Date>dateTime</Real_Init_Date>
<Postponed>int</Postponed>
<Postponed_Motiv>string</Postponed_Motiv>
<FK_Comment>int</FK_Comment>
<Location_Accepted>int</Location_Accepted>
<Location_Accepted_Comment>int</Location_Accepted_Comment>
<Development_Accepted>int</Development_Accepted>
<Development_Accepted_Comment>int</Development_Accepted_Comment>
<Request_Accepted>int</Request_Accepted>
<Real_End_Date>dateTime</Real_End_Date>
<Usable_Date>dateTime</Usable_Date>
<FK_File_Approval_Date>int</FK_File_Approval_Date>
<Test_Approval_Date>dateTime</Test_Approval_Date>
<Z_Order>int</Z_Order>
<PhaseBlockLocation>boolean</PhaseBlockLocation>
<PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
```

```
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circoscrizione>string</Circoscrizione>
<FieldChanges>string</FieldChanges>
<FK_Resolving_Phase>int</FK_Resolving_Phase>
<Insurance_Cost>decimal</Insurance_Cost>
</nPhase>
</setPhaseResponse>
</soap12:Body>
</soap12:Envelope>
```

---

## 5. getPhase

CityWorks permette, tramite il metodo getPhase, di ricercare una fase, o crearne una nuova in base alla tipologia.

Riceve in input l'identificativo della fase (histVal) e la tipologia (ID\_Type\_Category).

Le tipologie di fase possono essere:

- 1 Cumulativa (lunghezza scavo < 20m)
- 2 Autorizzazione/Concessione (lunghezza scavo 20m-200m)
- 3 Concessione (lunghezza scavo > 200m)
- 4 Progetto
- 5 Manutenzioni ordinarie
- 6 Urbanizzazioni
- 7 Ponteggi/Occupazioni
- 8 Manifestazioni
- 10 Segnalazioni

Se l'identificativo (histVal) della fase è passato a 0 viene creata una nuova fase in base alla tipologia indicata, altrimenti viene restituita la fase identificata da histVal. Altrimenti restituisce Nothing.

### SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.1. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "WSPhase/getPhase"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getPhase xmlns="WSPhase">
      <histVal>int</histVal>
      <ID_Type_Category>int</ID_Type_Category>
    </getPhase>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
```

Content-Length: **length**

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <getPhaseResponse xmlns="WSPhase">
      <getPhaseResult>
        <ID_Phase_HIST>int</ID_Phase_HIST>
        <Prog_Num>string</Prog_Num>
        <Entity>string</Entity>
        <FK_Work_Streets>int</FK_Work_Streets>
        <FK_Service>int</FK_Service>
        <Description>string</Description>
        <FK_File_Work>int</FK_File_Work>
        <Request_Sent_Date>dateTime</Request_Sent_Date>
        <Designer_Name>string</Designer_Name>
        <Designer_Tel>string</Designer_Tel>
        <Designer_Email>string</Designer_Email>
        <Excavation_Length>decimal</Excavation_Length>
        <Excavation_Width>decimal</Excavation_Width>
        <Cost>decimal</Cost>
        <Insurance_Percent>decimal</Insurance_Percent>
        <Estimated_Time>int</Estimated_Time>
        <Estimated_Init_Date>dateTime</Estimated_Init_Date>
        <Estimated_End_Date>dateTime</Estimated_End_Date>
        <Manager_Name>string</Manager_Name>
        <Manager_Tel>string</Manager_Tel>
        <Manager_Email>string</Manager_Email>
        <Security_Risp_Name>string</Security_Risp_Name>
        <Security_Risp_Tel>string</Security_Risp_Tel>
        <Security_Risp_Email>string</Security_Risp_Email>
        <Executor_Company>string</Executor_Company>
        <Executor_Assist_Name>string</Executor_Assist_Name>
        <Executor_Assist_Tel>string</Executor_Assist_Tel>
        <Executor_Assist_Email>string</Executor_Assist_Email>
        <Notes>string</Notes>
        <Request_Arrival_Date>dateTime</Request_Arrival_Date>
        <Request_Arrival_PG>string</Request_Arrival_PG>
        <PG_Date>dateTime</PG_Date>
        <Request_Creation_Date>dateTime</Request_Creation_Date>
        <Request_Creation_PG>string</Request_Creation_PG>
        <Authorization_Date>dateTime</Authorization_Date>
        <Ordinance_Date>dateTime</Ordinance_Date>
        <FK_File_Ordinance>int</FK_File_Ordinance>
        <Time_Scale>int</Time_Scale>
        <Real_Init_Date>dateTime</Real_Init_Date>
        <Postponed>int</Postponed>
        <Postponed_Motiv>string</Postponed_Motiv>
        <FK_Comment>int</FK_Comment>
        <Location_Accepted>int</Location_Accepted>
        <Location_Accepted_Comment>int</Location_Accepted_Comment>
        <Development_Accepted>int</Development_Accepted>
        <Development_Accepted_Comment>int</Development_Accepted_Comment>
        <Request_Accepted>int</Request_Accepted>
        <Real_End_Date>dateTime</Real_End_Date>
        <Usable_Date>dateTime</Usable_Date>
        <FK_File_Approval_Date>int</FK_File_Approval_Date>
        <Test_Approval_Date>dateTime</Test_Approval_Date>
        <Z_Order>int</Z_Order>
        <PhaseBlockLocation>boolean</PhaseBlockLocation>
```

```

<PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circoscrizione>string</Circoscrizione>
<FieldChanges>string</FieldChanges>
<FK_Resolving_Phase>int</FK_Resolving_Phase>
<Insurance_Cost>decimal</Insurance_Cost>
</getPhaseResult>
</getPhaseResponse>
</soap:Body>
</soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsPhase/DBFunctions.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getPhase xmlns="WSPhase">
      <histVal>int</histVal>
      <ID_Type_Category>int</ID_Type_Category>
    </getPhase>
  </soap12:Body>

```

```
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <getPhaseResponse xmlns="WSPhase">
      <getPhaseResult>
        <ID_Phase_HIST>int</ID_Phase_HIST>
        <Prog_Num>string</Prog_Num>
        <Entity>string</Entity>
        <FK_Work_Streets>int</FK_Work_Streets>
        <FK_Service>int</FK_Service>
        <Description>string</Description>
        <FK_File_Work>int</FK_File_Work>
        <Request_Sent_Date>dateTime</Request_Sent_Date>
        <Designer_Name>string</Designer_Name>
        <Designer_Tel>string</Designer_Tel>
        <Designer_Email>string</Designer_Email>
        <Excavation_Length>decimal</Excavation_Length>
        <Excavation_Width>decimal</Excavation_Width>
        <Cost>decimal</Cost>
        <Insurance_Percent>decimal</Insurance_Percent>
        <Estimated_Time>int</Estimated_Time>
        <Estimated_Init_Date>dateTime</Estimated_Init_Date>
        <Estimated_End_Date>dateTime</Estimated_End_Date>
        <Manager_Name>string</Manager_Name>
        <Manager_Tel>string</Manager_Tel>
        <Manager_Email>string</Manager_Email>
        <Security_Risp_Name>string</Security_Risp_Name>
        <Security_Risp_Tel>string</Security_Risp_Tel>
        <Security_Risp_Email>string</Security_Risp_Email>
        <Executor_Company>string</Executor_Company>
        <Executor_Assist_Name>string</Executor_Assist_Name>
        <Executor_Assist_Tel>string</Executor_Assist_Tel>
        <Executor_Assist_Email>string</Executor_Assist_Email>
        <Notes>string</Notes>
        <Request_Arrival_Date>dateTime</Request_Arrival_Date>
        <Request_Arrival_PG>string</Request_Arrival_PG>
        <PG_Date>dateTime</PG_Date>
        <Request_Creation_Date>dateTime</Request_Creation_Date>
        <Request_Creation_PG>string</Request_Creation_PG>
        <Authorization_Date>dateTime</Authorization_Date>
        <Ordinance_Date>dateTime</Ordinance_Date>
        <FK_File_Ordinance>int</FK_File_Ordinance>
        <Time_Scale>int</Time_Scale>
        <Real_Init_Date>dateTime</Real_Init_Date>
        <Postponed>int</Postponed>
        <Postponed_Motiv>string</Postponed_Motiv>
        <FK_Comment>int</FK_Comment>
        <Location_Accepted>int</Location_Accepted>
        <Location_Accepted_Comment>int</Location_Accepted_Comment>
        <Development_Accepted>int</Development_Accepted>
        <Development_Accepted_Comment>int</Development_Accepted_Comment>
        <Request_Accepted>int</Request_Accepted>
        <Real_End_Date>dateTime</Real_End_Date>
        <Usable_Date>dateTime</Usable_Date>
        <FK_File_Approval_Date>int</FK_File_Approval_Date>
```

```
<Test_Approval_Date>dateTime</Test_Approval_Date>
<Z_Order>int</Z_Order>
<PhaseBlockLocation>boolean</PhaseBlockLocation>
<PhaseBlockDevelopment>boolean</PhaseBlockDevelopment>
<PhaseBlockExecutor>boolean</PhaseBlockExecutor>
<PhaseBlockStartDates>boolean</PhaseBlockStartDates>
<PhaseBlockEndDates>boolean</PhaseBlockEndDates>
<PhaseBlockUsable>boolean</PhaseBlockUsable>
<PhaseBlockTested>boolean</PhaseBlockTested>
<FK_Project_State>int</FK_Project_State>
<FK_Workspace_Layer_Group>int</FK_Workspace_Layer_Group>
<FK_Project>int</FK_Project>
<FK_Category>int</FK_Category>
<FK_Circolazione>int</FK_Circolazione>
<Deleted>boolean</Deleted>
<Executor_Avail_Name>string</Executor_Avail_Name>
<Executor_Avail_Tel>string</Executor_Avail_Tel>
<Executor_Avail_Email>string</Executor_Avail_Email>
<Award_Date>dateTime</Award_Date>
<Resp_Proc_Name>string</Resp_Proc_Name>
<Resp_Proc_Tel>string</Resp_Proc_Tel>
<Resp_Proc_Email>string</Resp_Proc_Email>
<Creation_Date>dateTime</Creation_Date>
<NrUsers>int</NrUsers>
<PProject>int</PProject>
<Date_Mod>dateTime</Date_Mod>
<User_Mod>int</User_Mod>
<Phase_Messages>int</Phase_Messages>
<SystemValidationKey>string</SystemValidationKey>
<Broken_Rules_Descriptions>
  <string>string</string>
  <string>string</string>
</Broken_Rules_Descriptions>
<SystemChange>int</SystemChange>
<Area_Verde>boolean</Area_Verde>
<Notturna>boolean</Notturna>
<Circostrizione>string</Circostrizione>
<FieldChanges>string</FieldChanges>
<FK_Resolving_Phase>int</FK_Resolving_Phase>
<Insurance_Cost>decimal</Insurance_Cost>
</getPhaseResult>
</getPhaseResponse>
</soap12:Body>
</soap12:Envelope>
```

<http://cityworks.comunesbt.it/wsCartologyViewer/wsCartologyViewer.asmx>

## 6. BuildWKBPolygon

Il metodo BuildWFBPolygon (che fa parte di un altro servizio rispetto ai precedenti) permette di creare una geometria.

BuildWKFBPolygon riceve in input il callContext , l'identificativo del layer (idLayer) su cui costruire la geometria, il poligono o polilinea da costruire (poly), il nome del workspace (workspaceName) su cui costruire la geometria, eventuali attributi alla geometria (attributes) e l'identificativo della geometria (geometryID).

Se il salvataggio va a buon fine restituisce l'identificativo (geometryID) della geometria creata, altrimenti restituisce -1.

### SOAP 1.1

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```
POST /wsCartologyViewer/wsCartologyViewer.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://WebGisLab.it/BuildWKBPolygon"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BuildWKBPolygon xmlns="http://WebGisLab.it/">
      <callContext>base64Binary</callContext>
      <idLayer>int</idLayer>
      <poly />
      <workspaceName>string</workspaceName>
      <attributes>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
      </attributes>
      <geometryID>string</geometryID>
    </BuildWKBPolygon>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length
```



```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BuildWKBPolygonResponse xmlns="http://WebGisLab.it/">
      <BuildWKBPolygonResult>int</BuildWKBPolygonResult>
      <callContext>base64Binary</callContext>
      <attributes>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
      </attributes>
      <geometryID>string</geometryID>
    </BuildWKBPolygonResponse>
  </soap:Body>
</soap:Envelope>

```

## SOAP 1.2

Di seguito è riportato un esempio di richiesta e risposta SOAP 1.2. I **segnaposto** devono essere sostituiti con i valori appropriati.

```

POST /wsCartologyViewer/wsCartologyViewer.asmx HTTP/1.1
Host: cityworks.comunesbt.it
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <BuildWKBPolygon xmlns="http://WebGisLab.it/">
      <callContext>base64Binary</callContext>
      <idLayer>int</idLayer>
      <poly />
      <workspaceName>string</workspaceName>
      <attributes>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
      </attributes>
      <geometryID>string</geometryID>
    </BuildWKBPolygon>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>

```

```
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <BuildWKBPolygonResponse xmlns="http://WebGisLab.it/">
      <BuildWKBPolygonResult>int</BuildWKBPolygonResult>
      <callContext>base64Binary</callContext>
      <attributes>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
        <GeometryAttribute>
          <Name>string</Name>
          <Value />
        </GeometryAttribute>
      </attributes>
      <geometryID>string</geometryID>
    </BuildWKBPolygonResponse>
  </soap12:Body>
</soap12:Envelope>
```

Per qualsiasi ulteriore delucidazione tecnica sulle implementazioni di City Works, è disponibile l'indirizzo [supportcityworks@webgislab.org](mailto:supportcityworks@webgislab.org).