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| **Philly CRM 311**  **Technical Design – Manhole Cover**  **V1.0** |
|  |

# REVISION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision Number** | **Revision Date** | **Summary of Changes** | **Author** |
| Draft | 01/24/2014 | Created Draft | Murugaboopathi |
| 1.0 | 05/07/2014 | Modified Based on SR 1.4 | Murugaboopathi |

# 1 - TABLE OF CONTENTS

[REVISION HISTORY 2](#_Toc387213122)

[1 - TABLE OF CONTENTS 3](#_Toc387213123)

[2 – SERVICE REQUEST INFORMATION 4](#_Toc387213124)

[2.1 ENTITY RELATIONSHIP DIAGRAM 4](#_Toc387213125)

[2.2.1 CASE STANDARD FIELDS 5](#_Toc387213126)

[2.2.2 CUSTOM FIELDS 6](#_Toc387213127)

[2.2.3 Dependent Picklist 7](#_Toc387213128)

[2.2.4 Force.com Objects 7](#_Toc387213129)

[2.3 HIGH LEVEL SYSTEM PROCESS FLOW 8](#_Toc387213130)

[3 - NEW FUNCTIONALITY 9](#_Toc387213131)

[3.1 CONFIGURATION DETAILS 9](#_Toc387213132)

[3.2 DATA SHARING MODEL 13](#_Toc387213133)

[3.3 CUSTOM DEVELOPMENT DETAILS 14](#_Toc387213134)

[4 – STANDARD CASE FIELDS 18](#_Toc387213135)

[4.1 DEPARTMENT DETAILS SECTION 18](#_Toc387213136)

[4.2 CASE DETAIL/INFORMATION SECTION 19](#_Toc387213137)

[4.3 SERVICE REQUEST LOCATION SECTION 21](#_Toc387213138)

[4.4 CASE LOCATION SECTION 21](#_Toc387213139)

[4.5 DESCRIPTION INFORMATION SECTION 22](#_Toc387213140)

[4.6 RESOLUTION INFORMATION SECTION 22](#_Toc387213141)

[4.6 WEB INFORMATION SECTION 23](#_Toc387213142)

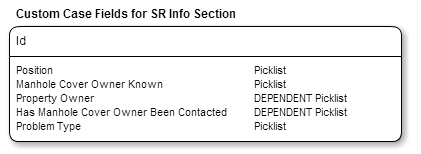
[4.7 SYSTEM INFORMATION SECTION 24](#_Toc387213143)

# 2 – SERVICE REQUEST INFORMATION

|  |  |
| --- | --- |
| **Case Record Type :** | Manhole Cover |
| **Service Request ID** | SR-ST14 Manhole Cover |
| **Service Request Type** | Manhole Cover |
| **Department** | Streets |

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| 2.1 ENTITY RELATIONSHIP DIAGRAM |





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| 2.2.1 CASE STANDARD FIELDS |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Data Type** | **Required** | **Unique** | **Default Value** | **External ID** | **Rule #** | **History** | **Help Text** |
| Status | Status | Picklist  **Values:** New, In-Progress, Escalated, On Hold, and Closed | Yes | No | New | No | None | Yes |  |
| Case Origin | Origin | Picklist  **Values:** Phone, Email, Web | Yes | No | Phone | No | None | Yes |  |
| Priority | Priority | Picklist  **Values:** 1,2,3,4,5,6,7,8,9 | Yes | No | 5 | No | None | Yes |  |

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| 2.2.2 CUSTOM FIELDS |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Data Type** | **Required** | **Unique** | **Default Value** | **External ID** | **Rule #** | **History** | **Help Text** |
| Position | Position  \_\_c | Picklist  **Values:** Travel Lane, Parking Lane, Sidewalk, Intersection | Yes |  |  |  | None | No | Is the manhole cover on a sidewalk or which position? |
| Manhole Cover Owner Known | Manhole\_Cover\_Owner\_Known\_\_c | Picklist  **Values:** Yes, No | Yes |  |  |  | None | No | Is the owner of the manhole cover known? |
| Property Owner | Property\_Owner\_\_c | DEPENDENT Picklist  (**Section 2.2.3 Dependent Picklist Rule #1**) | Yes |  |  |  | Workflow Rule #1  Workflow Rule #2  Workflow Rule #3  Workflow Rule #4  Workflow Rule #5 | No | Common owners are Philadelphia Water Department (PWD), Philadelphia Gas Works (PGW), Verizon, PECO, SEPTA, and Public Property. |
| Has Manhole Cover Owner Been Contacted | Has\_Manhole\_Cover\_Owner\_Been\_Contacted\_\_c | DEPENDENT Picklist  (**Section 2.2.3 Dependent Picklist Rule #2**) | No |  |  |  | Validation Rule #1 | No | Has the customer already contacted the owner of the manhole cover? |
| Problem Type |  | Picklist  **Values:** Missing Lid, Area Around the Manhole, Loose Manhole, Other Issue | Yes |  |  |  | Workflow Rule #6  Workflow Rule #7 | No | Description of the problem with the manhole cover. |

|  |
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| 2.2.3 Dependent Picklist |

**Dependent Picklist Rule #1:**

Control Field Name: Manhole Cover Owner Known

Dependent Field Name: Property Owner

Values = PWD, PGW, PECO, VERIZON, SEPTA, Public Property, Not Known

All values are shown if Manhole Cover Owner Known = ‘Yes’

**Dependent Picklist Rule #2:**

Control Field Name: Manhole Cover Owner Known

Dependent Field Name: Has Manhole Cover Owner Been Contacted

Values = PWD, PGW, PECO, VERIZON, SEPTA, Public Property, Not Known

All values are shown if Manhole Cover Owner Known = ‘Yes’

|  |
| --- |
| 2.2.4 Force.com Objects |

|  |  |  |
| --- | --- | --- |
| **Custom/Standard** | **Existing Objects** | **New Objects** |
| Standard | Case |  |
| Standard | Account |  |
| Standard | Contact |  |
| Custom | PKB Article Deflection |  |

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| 2.3 HIGH LEVEL SYSTEM PROCESS FLOW |



# 3 - NEW FUNCTIONALITY

|  |
| --- |
| 3.1 CONFIGURATION DETAILS |

**Case Record Type:** *Manhole Cover*

Label: Manhole Cover

Support Process: Manhole Cover

Support Process Selected Values:

* New (Default)
* In-Progress
* Escalated
* On-Hold
* Closed

Record Type Name: Manhole Cover

**Buttons:**

* Case Edit
  + Save
  + Save & Close
  + Cancel
* Case Detail
  + Edit
  + Delete
  + Close Case
  + Clone

**Tab Setup:**

**App Setup:**  Call Center Console

**User Profile Setup:**

* 311 Agents
* 311 Supervisors
* Case Workers
* System Administrators

**Permission Set Setup:** Please refer Profile & Permission Setup and Profile technical design.

**Role Hierarchy Considerations:** TBD

**Workflows:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Rule #** | **Rule Name** | **Workflow Action** | **Rule Criteria** | **Object** | **Evaluation Criteria** |
| 1 | Workflow Rule for *Property Owner* | Display message: “If the owner of the manhole cover is known, the customers is responsible for contacting the owner of the manhole cover directly and provide the contact details or transfer call to 215-685-6300.”  Automatically change Service Request Type to “Service Not Needed’ and save the case.  Automatically assign the case and then close it with a Close Reason = “Service Not Needed”. | *Property Owner* = ‘PWD’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 2 | Workflow Rule for *Property Owner* | Display message: “If the owner of the manhole cover is known, the customers is responsible for contacting the owner of the manhole cover directly and provide the contact details or transfer call to 215-235-1000.”  Automatically change Service Request Type to “Service Not Needed’ and save the case.  Automatically assign the case and then close it with a Close Reason = “Service Not Needed”. | *Property Owner* = ‘PGW’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 3 | Workflow Rule for *Property Owner* | Display message: “If the owner of the manhole cover is known, the customers is responsible for contacting the owner of the manhole cover directly and provide the contact details or transfer call to 800-494-4000.”  Automatically change Service Request Type to “Service Not Needed’ and save the case.  Automatically assign the case and then close it with a Close Reason = “Service Not Needed”. | *Property Owner* = ‘PECO’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 4 | Workflow Rule for *Property Owner* | Display message: “If the owner of the manhole cover is known, the customers is responsible for contacting the owner of the manhole cover directly and provide the contact details or transfer call to 215-580-7800.”  Automatically change Service Request Type to “Service Not Needed’ and save the case.  Automatically assign the case and then close it with a Close Reason = “Service Not Needed”. | *Property Owner* = ‘SEPTA’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 5 | Workflow Rule for *Property Owner* | Display message: “If the owner of the manhole cover is known, the customers is responsible for contacting the owner of the manhole cover directly and provide the contact details or transfer call to 800-837-4966.”  Automatically change Service Request Type to “Service Not Needed’ and save the case.  Automatically assign the case and then close it with a Close Reason = “Service Not Needed”. | *Property Owner* = ‘VERIZON’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 6 | Workflow Rule for *Problem Type* | Automatically set *Service Request Type* = ‘Manhole Cover Missing’. | *Problem Type* = ‘Missing Lid’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |
| 7 | Workflow Rule for *Problem Type* | Automatically set *Service Request Type* = ‘Manhole Other Problem’. | *Problem Type* = ‘Area Around the Manhole’ OR ‘Loose Manhole’ OR ‘Other Issue’ | Case | Evaluate the rule when a record is created, and every time it’s edited. |

**Approval Processes:**  None

**Reports & Dashboards:** None

**Validation Rules**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rule No** | **Rule Name** | **Conditions** | **Message** |
| 1 | for Has Manhole Cover Owner Been Contacted | The Has Manhole Cover Owner Been Contacted field must be populated (not NULL) if Manhole Cover Owner Known = ‘Yes’ |  |

**Queue(s) :**

*Row Unit*

**Queue Conditions:**

**Queue Members :** Stephen Lorenz

* **Email Notifications:** if the Agent is selected “Send Notification Email to Contact” checkbox then send Email to Contact using “Case Creation” template.

**Public Groups:** None

**Sharing Rules:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rule Name** | **Criteria** | **Shared With** | **Access Level** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Custom Report Types:** None Defined

**Chatter Enabled Objects:** NONE

**Documents And Attachments** :

**Flow/Agent Instructions(Left side of the Layout)**:

|  |
| --- |
| * **Purpose: To report a missing, broken or rattling utility / manhole cover.**    + Manhole covers are heavy metal plates used to gain access to utilities and keep unauthorized individuals out.  Common owners are Philadelphia Water Department (PWD), Philadelphia Gas Works (PGW), Verizon, PECO, SEPTA, and Public Property. * **Contact fields: Enter the customer’s contact information.** * **Service Address fields: Enter the exact address of the location of the manhole cover.** * **Description field: Enter any additional information about the problem. If** the customer does not know the exact address, enter a location in the Description field. Example: Manhole is in the middle of the block on the southbound side of Broad Street, in front of Walgreens * **Advise the customer:**   + **The Streets Department does not own or maintain manholes/utility covers, however the department investigates manhole/utility cover issues that are on the asphalt in the street. A service request must be submitted for all inquiries/complaints**   + **The Streets Department will investigate within 2 business days and follow up with the owner of the manhole/utility cover**   **Do NOT transfer calls or give the Street Department’s telephone number** |

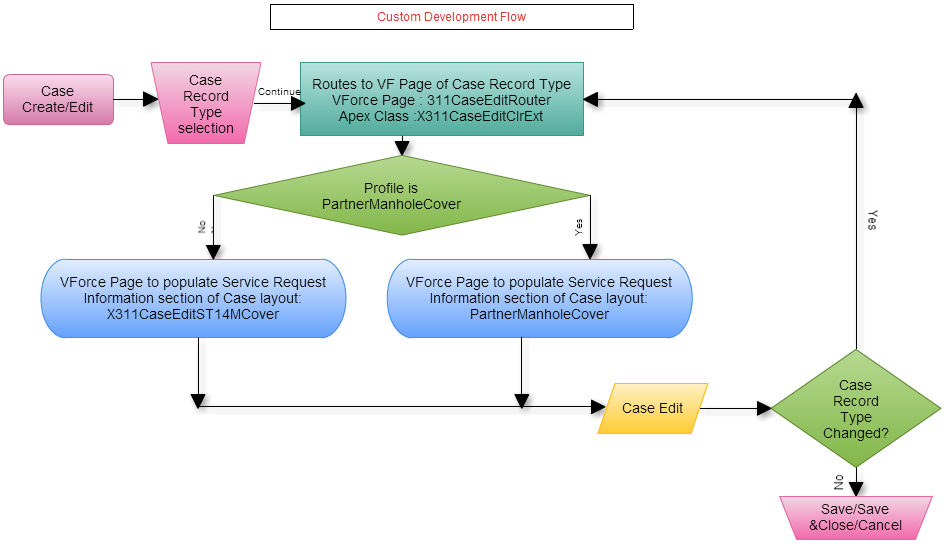
|  |
| --- |
| 3.2 DATA SHARING MODEL |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***User Types*** | ***Permission Sets*** | ***Public Groups*** |
| *LEVEL 1* |  |  |  |
| *LEVEL 2* |  |  |  |
| *LEVEL 3* |  |  |  |

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| 3.3 CUSTOM DEVELOPMENT DETAILS |

**Visualforce Pages**

* For Case Location Section in Case Detail: Create a VF Page which will use SR Location to depict Street,City,State in a Map.



**Custom Flow :** For standard button New/Edit button is replaced with a custom Visualforce Page **X311CaseEditRouter**. All the Visual force pages and related extensions are defined as follows.

**Visual Force Page : X311CaseEditRouter**

**Purpose:**  To route to SR specific Visual force page.

<apex:page standardcontroller="Case" extensions="X311CaseEditClrExt" action="{!redir}">

</apex:page>

**Apex Class : X311CaseEditClrExt**

public PageReference redir() {

* + - 1. Get current page parameters.
      2. Get the relevant Page depending on the Profile and Record Type(X311CaseEditNS01Graffiti or PartnerGraffitiRemoval)..
      3. Redirect to the page with parameters.

}

**Visual Force Page : X311CaseEditST14MCover**

<apex:page standardcontroller="Case">

<apex:composition template="X311CaseEdit">

<apex:define name="typeSpecific">

<apex:pageblocksection title="Service Request Information" showheader="true" collapsible="true" columns="2">

**SR Manhole Cover SPECEFIC FIELDS**

</apex:pageblocksection>

</apex:define>

</apex:composition>

</apex:page>

**Visual Force Page : X311CaseEdit**

<apex:page standardcontroller="Case" extensions="X311CaseEditClrExt">

<apex:pageblock mode="edit">

<apex:pageblocksection title="Department Details">

</apex:pageblocksection>

<apex:pageblocksection title="Case Information">

</apex:pageblocksection>

<apex:pageblocksection title="Service Request Location">

</apex:pageblocksection>

<apex:inputTextArea id="caseInternalComments" >

</apex:pageblocksection>

<apex:pageblocksection title="Description Information">

</apex:pageblocksection>

<apex:pageblock>

</apex:page>

**Visual Force Page : PartnerManholeCover**

<apex:page standardcontroller="Case" extensions="X311CaseEditClrExt">

<apex:pageblock mode="edit">

<apex:pageblocksection title="Department Details">

</apex:pageblocksection>

<apex:pageblocksection title="Case Information">

</apex:pageblocksection>

<apex:pageblocksection title="Service Request Location">

</apex:pageblocksection>

<apex:inputTextArea id="caseInternalComments" >

</apex:pageblocksection>

<apex:pageblocksection title="Service Request Information" showheader="true" collapsible="true" columns="2">

**SR Manhole Cover SPECEFIC FIELDS**

</apex:pageblocksection>

<apex:pageblocksection title="Description Information">

</apex:pageblocksection>

<apex:pageblock>

</apex:page>

**Triggers**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trigger Name** | **Parent**  **Object** | **Child**  **Object** | **Trigger**  **Event** | **Operation**  **Type** | **Description** |
| CalculateBusinessHoursAges | Case |  | Before update | Insert | Calculates the total business hours between when a case was opened and when it was closed and then populates “Case Age in Business Hours” field, which is displayed in the “Age to Close in Business Hours” field shown within the “Resolution Information” section of the case |
| Account\_Name\_Update | Contact |  | Before update | Insert | When a new Contact is created during the case creation process, the system does not allow for an Account to be associated to the Contact, yet Account is a required field for a Contact. Whenever a new Contact is created without an Account, this trigger will associate the Account record with Name = “City of Philadelphia” to the Contact record |

**Apex Code:**

**Force.com sites:**

**Javascript:**

**Web Service/API Code:**

**Customer Portals:**

**Communities:** Community Partner Self-Service Portal

**Site.com:**

**Third Party Applications:**  Survey Force, Sales for Social Media & Call Center Console

**Other**

**Layout**

* **Layout:** TBD

Related Lists :

* Solutions
* Open Activities
* Activity History
* Case Comments
* Case History
* Attachments

# 4 – STANDARD CASE FIELDS

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| 4.1 DEPARTMENT DETAILS SECTION |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Unique** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| Type | Type | Picklist  **Values:** Service Request Type, Information Request Type, Directory Services | N | Service Request Type | Y |  | N | N | None | Y | Field is initially auto-populated based on the Case Record Type being created. If this value is manually changed, it will result in a new Field Layout based on the new Case Record Type. |
| Department | Department\_\_c | Picklist  **Values:** Neighborhood Services | Y | Service Request Type | Y |  | N |  | None | N | Department will be automatically set based on Service Request Type. For an Information Request, this field will be automatically populated by the article. For Directory Services the field will default to 311 Services. |
| StreetService Request Type | Service\_Request\_Type\_\_c | Picklist  **Values:** Graffiti Removal | Y | Graffiti Removal | Y |  | N |  | None | Y | This field is initially auto-populated based on the Case Record Type chosen when creating the case. If this value is changed, it could result in a new Field Layout based on the new Case Record Type chosen.  If any value in the Other Case Information systems indicates that this should not be forwarded to another department as a Service Request, a value of “Request Not Required” will be assigned to this field, which will indicate that the Case should be closed upon save without being assigned to a queue. |

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| 4.2 CASE DETAIL/INFORMATION SECTION |

**NOTE :** Section Header has to be “Case Information” in the layout when case is created or opened for modification. Other wise, Section Header is “Case Detail” .

| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Unique** | **Read Only** | **External ID** | | **Validation** | **History** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Case Owner | Owner | Lookup(User,Queue) | N |  | N |  | N | N | None | | Y | When a case is created this field is set to the User creating the case. Upon save, the Standard Case Assignment Rule is executed and this field is updated to a Queue based on the case’s Service Request Type. Once the case is saved this field can be manually changed by a user. |
| Case Number | CaseNumber | Auto Number | N |  | N | Y | Y | N | None | | N | The system automatically populates this field when a case is created. |
| Caller Zip Code | Caller\_zip\_code\_\_c | Lookup(Contact) | Y |  | Y |  | N | N | None | | Y | This field will be populated by the Zip Code in the Contact record if one is associated with the case, otherwise the agent may populate it with a number from the caller. |
| Contact Name | Contact | Lookup(Account) | N |  | N |  | N | N | None | | Y | This field contains the Contact requesting the service. Ideally every case should have an associated contact. |
| Account Name | Account | Lookup(Account) | N |  | N |  | N | N | None | | N | This field contains the Account associated with the Contact record. |
| Parent Case | Parent | Lookup(Account) | N |  | N |  | N | N | None | | N | Two cases can be associated to each other via a parent/child relationship. This field identifies the “Parent” case. “Child” cases are displayed in the “Related Cases” Related List section for the “Parent” case. |
| Case Origin icon | Origin | Formula(Text) | Y |  | N |  | Y | N | None | | N | Shows an image representing the value in the Case Origin field. The formula for this field is: IMAGE(  CASE( Origin,  "Email", "https://<SalesforceOrg>.content.force.com/servlet/servlet.FileDownload?file=015K0000000238q",  "Phone", "https://<SalesforceOrg>.content.force.com/servlet/servlet.FileDownload?file=015K0000000238R",  "Web", "https://<SalesforceOrg>.content.force.com/servlet/servlet.FileDownload?file=015K000000023QL",  "/s.gif"),  "Origin Flag") |
| Contact Phone | ContactPhone | Phone | N |  | N |  | Y | N | None | | N | This display-only field is from the “Phone” field on the Contact record associated to the case. |
| Contact Email | ContactEmail | Email | N |  | N |  | Y | N | None | | N | This display-only field is from the “Email” field on the Contact record associated to the case. |
| Status | Status | Picklist  **Values:** On Hold, Escalated, Closed, New, In-Progress | N | New | Y |  | N | N | None | | Y | This required field defines the status of the case.   * “New” is the default value when creating a case. * All values except “Closed” are available when creating or editing a case.   “Closed” is the only value that can be selected when the “Close Case” button is used. |
| Case Origin | Origin | Picklist  **Values:** Email, Phone, Web | N | Phone |  | Y | N | N | None | | Y | This optional field provides the in-depth description of the case. |
| Priority | Priority | Picklist  **Values:** 1,2,3,4,5,6,7,8,9 | N | 5 |  | N | N | N | None | | N | This field allows a user to easily create a Comment while creating or editing a case. The data entered in this field will be used by the system to create a Comment record that will be displayed in the “Case Comments” Related List section of the case. |

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| 4.3 SERVICE REQUEST LOCATION SECTION |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Unique** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| Street | Street\_\_c | Text(255) | Y |  | N |  | N |  |  |  | Street of the Service Request Location. Also see Standard Workflow Rules. |
| City | City\_\_c | Text(255) | Y |  | N |  | N |  |  |  | City of the Service Request Location. Also see Standard Workflow Rules. |
| State | State\_\_c | Text(255) | Y |  | N |  | N |  |  |  | State of the Service Request Location. Also see Standard Workflow Rules. |

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| 4.4 CASE LOCATION SECTION |

Defined in GIS Integration Detailed Design Document.

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| 4.5 DESCRIPTION INFORMATION SECTION |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| Subject | Subject | Text(255) | N |  | Y | N |  |  | Y | If this field is populated when creating a new case, the system will find and display Knowledgebase Articles using the content in the “Subject” field. |
| Description | Description | Long Text Area(32000) | N |  | Y | N |  |  | Y | This optional field provides the in-depth description of the case. |
| Internal Comments | Comments | Text Area(4000) | N |  | N | N |  |  | N | This field allows users to enter a Comment while creating or editing a case. Data entered in this field will be used by the system to create a Comment record that will be displayed in the “Case Comments” Related List section of the case. |

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| 4.6 RESOLUTION INFORMATION SECTION |

NOTE: Case Detail page have these fields only be populated if the case is “closed”.

| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Close Reason | Close\_Reason\_\_c | Formula (Text) Formula : TEXT(Reason) | Y |  | N | Y |  |  | N |  |
| Resolution Description | Resolution\_Description\_\_c | Formula (Text) Formula : TEXT(Issue\_Resolution\_\_c) | Y |  | N | Y |  |  | N |  |
| Date/Time Closed | ClosedDate | Date/Time | N |  | N | Y |  |  | N |  |
| Age to Close in Business Hours | Age\_to\_Close\_in\_Business\_Hours\_\_c | Formula(Number) | Y |  | N | Y |  |  | N | CalculateBusinessHoursAges trigger would update this field |
|  |  |  |  |  |  |  |  |  |  |  |

NOTE: Following fields is shown in Resolution Info section.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| Case Age in Business Hours | Case\_Age\_In\_Business\_Hours\_\_c | Number(15,3) | N |  | N | Y |  |  | Y | CalculateBusinessHoursAges trigger would update this field |
| Case Reason | Reason | Picklist Values: Emergency Call, Invalid, Other, Question Answered | N | Question Answered | Y | N |  |  | Y |  |
| Issue Resolution | Issue\_Resolution\_\_c | Text Area(255) | Y |  | N | N |  |  | Y |  |

## 

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| 4.6 WEB INFORMATION SECTION |

NOTE: Section is shown only when the case is created through social media channels.

| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Read Only** | **External ID** | **Validation** | **History** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Web Email | SuppliedEmail | Email | N |  | N | Y |  |  | N |  |
| Web Name | SuppliedName | Text(80) | N |  | N | Y |  |  | N |  |
| Web Company | SuppliedCompany | Text(80) | N |  | N | Y |  |  | N |  |
| Web Phone | SuppliedPhone | Text(40) | N |  | N | Y |  |  | N |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4.7 SYSTEM INFORMATION SECTION | | | | | | | |
| **Field Label** | **Field Name** | **Field Type** | **Custom** | **Default** | **Required** | **Read Only** | **External ID** | | **Validation** | **History** | **Comments** |
| Created By | CreatedBy | Lookup(User) | N |  | N | Y |  | |  | N |  |
| Last Modified By | LastModifiedBy | Lookup(User) | N |  | N | Y |  | |  | N |  |

Additional comments: