

IBM Maximo Asset Management version 7.1

Adding new domains



IBM Maximo Asset Management version 7.1, Adding new domains

Objectives

When you complete this module, you should be able to:

- Describe the Maximo Asset Management product and its benefits
- Explain what a domain is
- List the six domain types available with Maximo Asset Management
- Navigate to both the Domains application and Application Designer screens
- Add a new domain to an existing record
- Test a record with a newly added domain

After completing this training module, you should be able to:

- Give an overview description of the Maximo Asset Management product
- Define what a domain is
- List the six Maximo Asset Management domain types
- Navigate from the Go To menu to the Domains application screen
- Navigate from the Go To menu to the Application Designer screen
- Add a domain to a record
- Test records to verify the successful addition of new domains

IBM Maximo Asset Management V7.1 product overview

- **IBM Maximo Asset Management** is a comprehensive, unified physical asset management solution.
- IBM Maximo Asset Management version 7.1 provides these benefits:
 - Assists in the development of a coordinated program for preventive, predictive, routine, and unplanned maintenance
 - Unified service oriented architecture (SOA) platform that delivers asset life cycle and maintenance management from end-to-end across the enterprise
 - Advanced scheduling functionality which allows deployment of personnel with the appropriate skills at the right time and for the right job
 - Helps ensure compliance with contracts, service level agreements, internal standards, and government regulations
 - Additional high-value functions include inventory, procurement, warranty management, vendor management, parts management and supply chain logistics.

IBM Maximo Asset Management provides an asset management solution that is both comprehensive and unified.

IBM Maximo Asset Management 7.1 manages the development of coordinated routine and unplanned maintenance programs.

It provides a unified service-oriented architecture platform to the user.

This platform delivers end-to-end enterprise asset life cycle and maintenance management.

Using Maximo Asset Management gives you advanced scheduling capability which is invaluable in efforts to deploy the appropriate personnel for problem resolution.

Maximo Asset Management features assist users with service level agreements, company policies, and government regulation compliance.

Additional maximo asset management high-value functions are available which focus specifically on inventory, procurement, warranty management, vendor management, parts management and supply chain logistics.

Synonym, ALN, and numeric domain types

Three of the six domain types:

- **SYNONYM:** Contains pre-defined list of internal values
 - You can add new synonym internal values
 - Example: company types contain internal values such as:
 - Courier
 - Manufacturer
 - Vendor
 - User adds synonyms for the vendor value (DEFVEND for default vendors, PREVEND for preferred vendors)
- **ALN:** Contains a list of values that use alphanumeric data types
 - Example: MON,TUE,WED,THU,FRI,SAT,SUN
- **NUMERIC:** Contains a list of values that use numeric data types
 - For example: 10, 25, 50, 75, and 100

There are six domain types used in Maximo Asset Management version 7.1.

The synonym domain type range has a strict list of pre-defined internal values. You are allowed to add new synonym domain values to the list that will substitute for specific pre-defined values.

If you look at the domain of an ALN you will see only letters and numbers while the numeric data domain data types allowed are restricted to only using numbers.

Numeric range, table, and crossover domains types

The remaining three domain types:

- **NUMERIC RANGE:** List of numeric values you define when specifying a range
Example: 50-59, 60-69, 70-79, 80-89, 90-99
- **TABLE:** Dynamic set of values based on the values of another object (like a lookup)
Example: Lookup a list of active users
- **CROSSOVER:** Copies the value (or values) from another field to a specified record
Example: Copying the serial number field of an Asset record into a new field in the Items record

The three remaining domain types are numeric range, table, and crossover.

Numeric range domain types use a specified range of numeric values like fifty to fifty-nine.

Crossover domains copy a domain value that exists in one record, rename that domain value, and use it in another record that does not previously have that domain value.

New domain requirement scenario

Incident application does not contain the site for the affected person.

Add a new crossover domain to show the **SITEID** associated with the **Affected Person**.

Incident	1001	Owner	SINCLAIR	Owner Group		Status	QUEUED
User Information							
Reported By	BALL					Affected Person	BALL
Name	Allan Ball					Name	Allan Ball
Phone	(617) 444-9493					Phone	(617) 444-9493
E-mail	a.ball23@cmc.com					E-mail	a.ball23@cmc.com

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Sometimes you will want to redesign a table by adding a new field.

In this scenario Affected Person does not currently display the work location of the individual.

Since this information is contained elsewhere, you add a crossover domain with the required work location information to Affected Person.

Borrowing data from another table

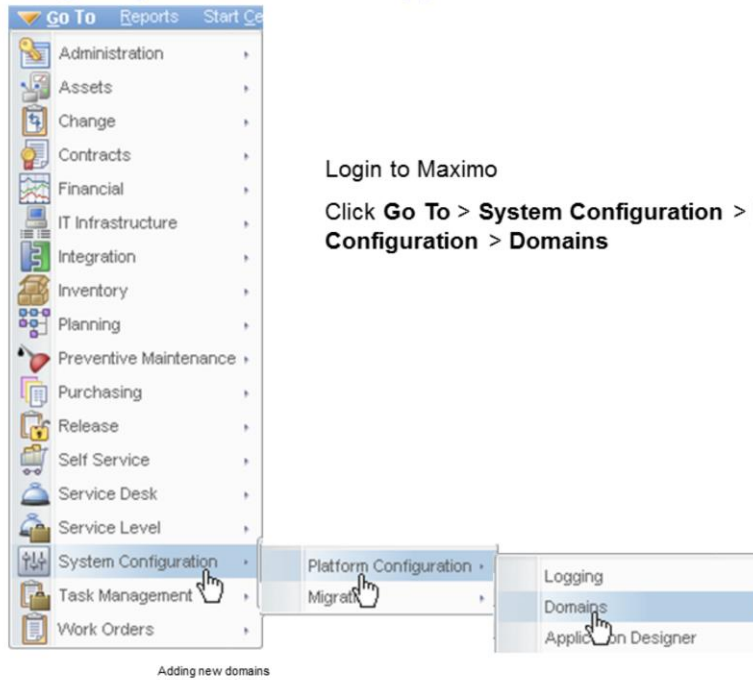
- Copy domain from Person.LOCATIONSITE into the Ticket.SiteID
- Table name is PERSON
 - PERSONID
 - DISPLAYNAME
 - FIRSTNAME
 - LASTNAME
 - STATUS
 - LOCATIONSITE
- Person.LOCATIONSITE is used to crossover to Ticket.SiteID

Here you will actually borrow an existing domain from another database table.

The domain will come from Person.LOCATIONSITE.

That domain value is configured to also populate Ticket.SiteID.

Navigating to the domains application



Login to Maximo

Click **Go To > System Configuration > Platform Configuration > Domains**

Log into the Maximo server and go to the Domains menu. Click Domains.

Add new domain button

Click



to add a new domain

From the Domains application click the Add New Domain button (bottom right corner). A drop-down menu will appear.

Add new domain drop-down menu options

Select **Add New Crossover Domain** from the drop-down menu



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You will now see the domain addition drop-down menu. Each option in the drop-down menu offers a different type of domain. Click the **Add New CROSSOVER Domain** option.

Crossover domain screen

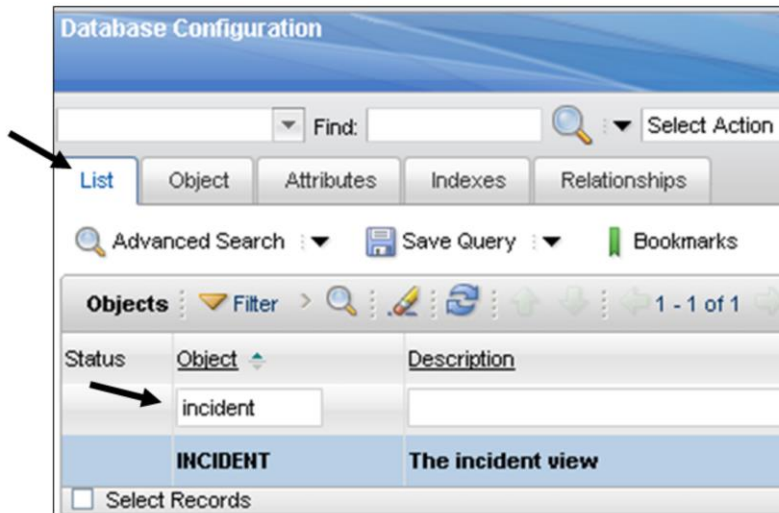
The screenshot displays the 'CROSSOVER Domain' configuration interface. At the top, the domain name is 'AFFECTEDSITE' and the description is 'Affected Person Site ID 2 Ticket Site ID'. Below this, the 'Object' is set to 'PERSON'. The 'List Where Clause' is empty, and the 'Validation Where Clause' is 'personid = :affectedperson'. The 'Crossover Fields' section shows 'LOCATIONSITE' as the 'Source Field' and 'SITEID' as the 'Destination Field'. The 'Copy if Null?' checkbox is unchecked. Arrows point to the domain name, the object field, and the source/destination fields.

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This crossover domain task requires copying the value from the PERSON.LOCATIONSITE field (found in the PERSON table) into the INCIDENT.SITEID field (found in the INCIDENT table). To create the domain, enter a name for the domain. For example, enter AFFECTEDSITE in the Domain field. The data required is LOCATIONSITE and it is copied to SITEID in the INCIDENT table.

Database configuration screen



Go to System Configuration module, Platform configuration, select the Database Configuration application.

Click the List tab and fill the Object box with the name of the table gaining a domain (**Incident**).

Attributes configuration screen

The screenshot shows the 'Attributes' configuration screen for the 'INCIDENT' object. The 'Attributes' tab is selected and circled in red. The 'AFFECTEDPERSON' attribute is selected in the list and circled in red. In the 'Details' section, the 'Title' field is set to 'Affected User' and circled in red. Other fields include 'Class', 'Domain', 'Default Value', 'Alias', and 'Status'.

Status	Attribute	Description	Type
	ACTLABCOST	Actual Labor Cost	AMOUNT
	ACTLABHRS	Actual Labor Hours	DURATION
	ACTUALCONTACTDATE	Actual contact date. Enter a date or click the S	DATETIME
	ACTUALFINISH	Actual finish date. Enter a date or click the Sek	DATETIME
	ACTUALSTART	Actual start date. Enter a date or click the Sele	DATETIME
	AFFECTEDDATE	Date when user was affected by incident. Erb	DATETIME
	AFFECTEDEMIL	E-mail address of person affected by the incid	ALN
	AFFECTEDPERSON	Person Affected	ALN
	AFFECTEDPERSONID	Identifies person affected by the incident. Ente	UPPER
	AFFECTEDPHONE	Telephone number of person affected by the ir	ALN

Details

Attribute	AFFECTEDPERSON
Description	Person Affected
Type	ALN
Length	62
Scale	0
Required?	<input type="checkbox"/>
Title	Affected User
Class	psdi.app.ticket.FixIt-AffectedUser
Domain	AFFECTEDSITE
Default Value	
Alias	AFFECTEDPERSON
Status	

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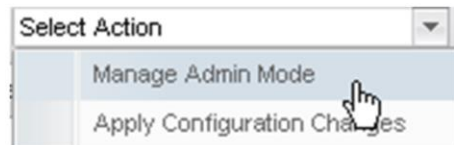
Click the **Attributes** tab, select the **affectedperson** attribute.

Enter **AFFECTEDSITE** in the domain field.

Save the record.

Managing administrative mode

Select Action



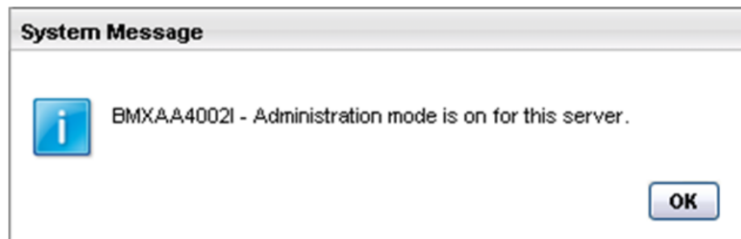
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Click the List Tab and click **Select Action**.

The Select Action drop-down menu will appear. Click the **Manage Admin Mode** option.

Turning on administrative mode



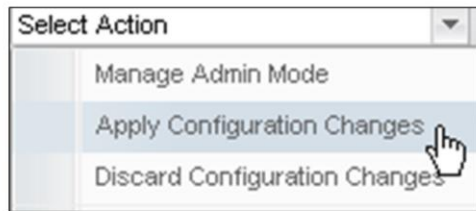
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Click the **Turn Admin Mode On** button. Enter the Administrator password and enter a reason for changes.

A message will come up when administrative mode has been turned on.

Apply configuration changes



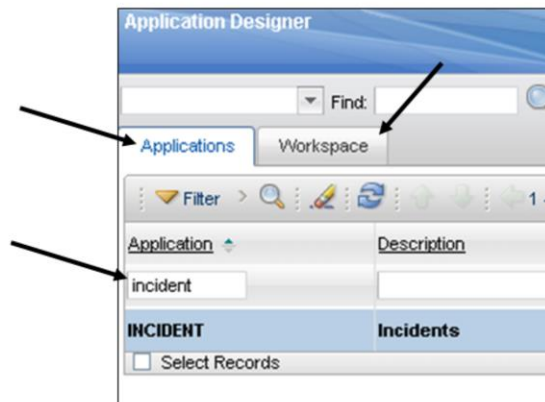
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Go to back to the **Select Action** menu and click to **Apply Configuration Changes**. Click the **Refresh** status button, wait until a message opens “ConfigDB completed without errors.”

Next, click the **OK** button.

Application designer screen



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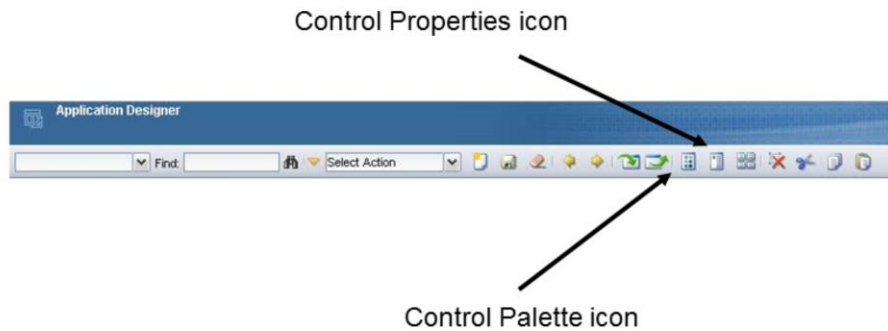
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Go to System Configuration Module, System Platform, then Select Application Designer application.

Enter Incident in the Application field, Press **ENTER** on the keyboard.

Click the **Workspace** tab.

Application designer toolbar



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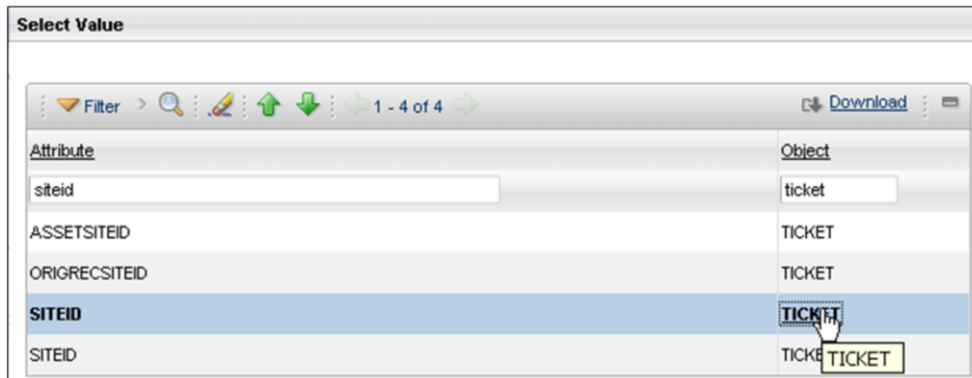
Click the **Control Palette** icon on the toolbar.

Drag and drop a text box to the incident screen. Select the newly added text box. Click **Control Properties** icon on the toolbar.

Use the **lookup** icon beside the **attribute** field.

Enter **siteid** in the **attribute** field and enter **ticket** in the **object** field.

Select value screen



Attribute	Object
siteid	ticket
ASSETSITID	TICKET
ORIGRECSITID	TICKET
SITEID	TICKET
SITEID	TICKET

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Select the line with Object = TICKET and attribute = SITEID.

Textbox properties screen

Textbox Properties

General Advanced


Control ID: 1306104992484

Default Label: Site

Label:

Hide Label?

Turn Smart Fill Off?

Attribute: SITEID 

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SITEID returns to the attribute field. Click the **save** icon on the toolbar.

Testing new SITEID field

A screenshot of a Maximo form titled "Testing new SITEID field". The form contains several input fields:

- Affected Person:** HARDY
- SITEID:** WOKING (This field is circled in red)
- Name:** James Hardy
- Phone:** 781-335-9999
- E-mail:** james.hardy@mro.com

Each input field has a small pencil icon to its right, indicating it is an edit field. The SITEID field is highlighted with a red oval.

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Log out and log back in to Maximo.

Go to the Service Desk Module, then select the **Incidents Application**.

On the List tab press **Enter** to bring up all records.

Select an incident record with status = QUEUED.

Enter HARDY in the affected **Person field**. Press **Tab** on the keyboard.

The newly added **SITEID** field has been populated with WOKING.

Testing review

The image shows two screenshots of a web application interface. The left screenshot is titled "Employee Information" and contains several input fields: Title, Job Code, Department, Employee Type, Supervisor, and Person's Site. The "Person's Site" field is set to "WOKING" and is circled in red. A blue arrow points from this field to the right screenshot. The right screenshot is titled "Affected Person" and contains fields for Affected Person (HARDY), SITE (WOKING), Name (James Hardy), Phone (781-335-9999), and E-mail (james.hardy@mro.com). The "SITE" field is also circled in red.

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Hardy is a person record in the PEOPLE application. This person belongs to the WOKING work location site.

The crossover domain addition copied the person's site information from the PERSON application to the INCIDENT application.

Review of steps

1. Create a new crossover Domain in the DOMAINS application
2. Attach the new domain to a field in Database Configuration
3. Add the same field from Step two above to the screen in Application Designer
4. Observed the crossover domain bringing another value (or values) from the specified record

In order to add the required new domain, you performed these steps:

- Used the DOMAINS application to add a new crossover domain
- A new domain was attached
- Added the field by using the Application Designer
- Verified that the crossover domain brought the required value from the required record

Summary

Now that you have completed this module, you should be able to:

- Understand the Maximo Asset Management product and its benefits
- Explain what a domain is
- List the six domain types available with Maximo Asset Management
- Navigate to both the Domains application and Application Designer screens
- Add a new domain to an existing record
- Test a record with a newly added domain

Now that you have finished this training module, you should be able to perform these tasks:

- Give an overview description of the Maximo Asset Management product
- Understand at a high level what a Maximo Asset Management domain is
- If asked, be able to list the available Maximo Asset Management domain types
- Navigate from the Go To menu to the Domains application screen
- Navigate from the Go To menu to the Application Designer screen
- Add a new domain
- Test records to verify the successful addition of new domains



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