



222-std-fea-005 Matix Feature Override Layer Map Extent

Integration in Govern V6

Release 6.0/6.1 Version 1

Last Revision Update: 2018/12/11

Version History

Version	Date	Modify By	Description
1.0	2018/12/10	Olusegun Olaniyan	Create document

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Table of Contents

Overview	5
Functionalities.....	5
Configuration	6
Map Extent group – Override Map Extent	6
Viewing the results in Govern.....	7
APPENDIX.....	8
Matix Tables.....	8
Changes to the Matix Table	8

Overview

The map extent is the limit of the geographic area displayed on a map. This area is usually defined by a rectangle. In the case of a dynamic map display, map extent may be changed by the zoom or pan action.

This is a feature that will override the default Layer Map Extent. Each layer has its specific defined extent. When system errors are caused by defined extent values, provisions are now available to override and reset them.

Functionalities

The rectangular extent limits (**XMin**, **YMin** and **XMax**, **YMax**), and **spatial reference**, i.e. the value required to display your data in the correct geographic location, of the defined area are displayed near the bottom left hand side of the *ArcGIS REST Services Directory*. The following is an example of a path that may be used: *AppServerName* > *arcgis* > *rest* > *services* > **Parcels**

In instances where issues arise as a result of the defined extent values, there is a tool that can be used to override and reset these values.

ArcGIS REST Services Directory

[Home](#) > [services](#) > [Parcels](#) > [Parcels_WM_Dynamic\(MapServer\)](#) > [Parcels](#)

[JSON](#)

Layer: Parcels (ID: 0)

Name: Parcels

Display Field: PARCEL_SPN

Type: Feature Layer

Geometry Type: esriGeometryPolygon

Description:

Definition Expression: N/A

Copyright Text:

Default Visibility: true

MaxRecordCount: 25000

Supported Query Formats: JSON, AMF, geoJSON

Min Scale: 36112

Max Scale: 0

Supports Advanced Queries: true

Supports Statistics: true

Has Labels: false

Can Modify Layer: false

Can Scale Symbols: false

Use Standardized Queries: true

Extent:

XMin: -1.1725224282030195E7
YMin: 4739748.0182722155
XMax: -1.1650396832054406E7
YMax: 4803431.5236734785
Spatial Reference: 102100 (3857)

For Example:

In a situation where the map extent default values are:

- **XMin:** 133998.98780000024
- **YMin:** 5427385.8651
- **XMax:** 766054.8088999996
- **YMax:** 6633853.2072
- **Spatial Reference:** 26913 (26913)

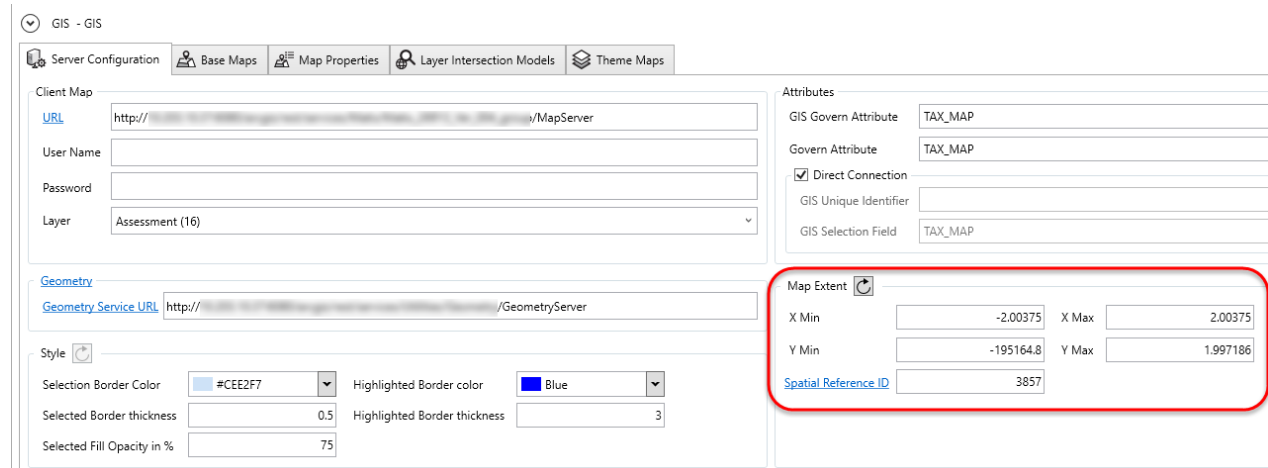
The above values are generating an error. When these values are overridden, the error is resolved. The following override values need to be entered:

- **XMin:** -2.00375
- **YMin:** -195164.8
- **XMax:** 2.00375
- **YMax:** 1.997186
- **Spatial Reference:** 3857 (3857)

Configuration

Map Extent group – Override Map Extent

A group box has been added to the Matix Server Configuration tab. The Map Extent group contains the parameters required to modify map extent values.



The screenshot shows the 'GIS - GIS' configuration window. The 'Server Configuration' tab is active. The 'Client Map' section includes fields for URL, User Name, Password, and Layer (set to 'Assessment (16)'). The 'Geometry' section includes a 'Geometry Service URL' field. The 'Style' section includes 'Selection Border Color' (set to #CEE2F7), 'Highlighted Border color' (set to Blue), 'Selected Border thickness' (0.5), 'Highlighted Border thickness' (3), and 'Selected Fill Opacity in %' (75). The 'Attributes' section includes 'GIS Govern Attribute' (TAX_MAP), 'Govern Attribute' (TAX_MAP), 'Direct Connection' (checked), 'GIS Unique Identifier', and 'GIS Selection Field' (TAX_MAP). The 'Map Extent' group is highlighted with a red box and contains the following fields: 'X Min' (-2.00375), 'X Max' (2.00375), 'Y Min' (-195164.8), 'Y Max' (1.997186), and 'Spatial Reference ID' (3857).

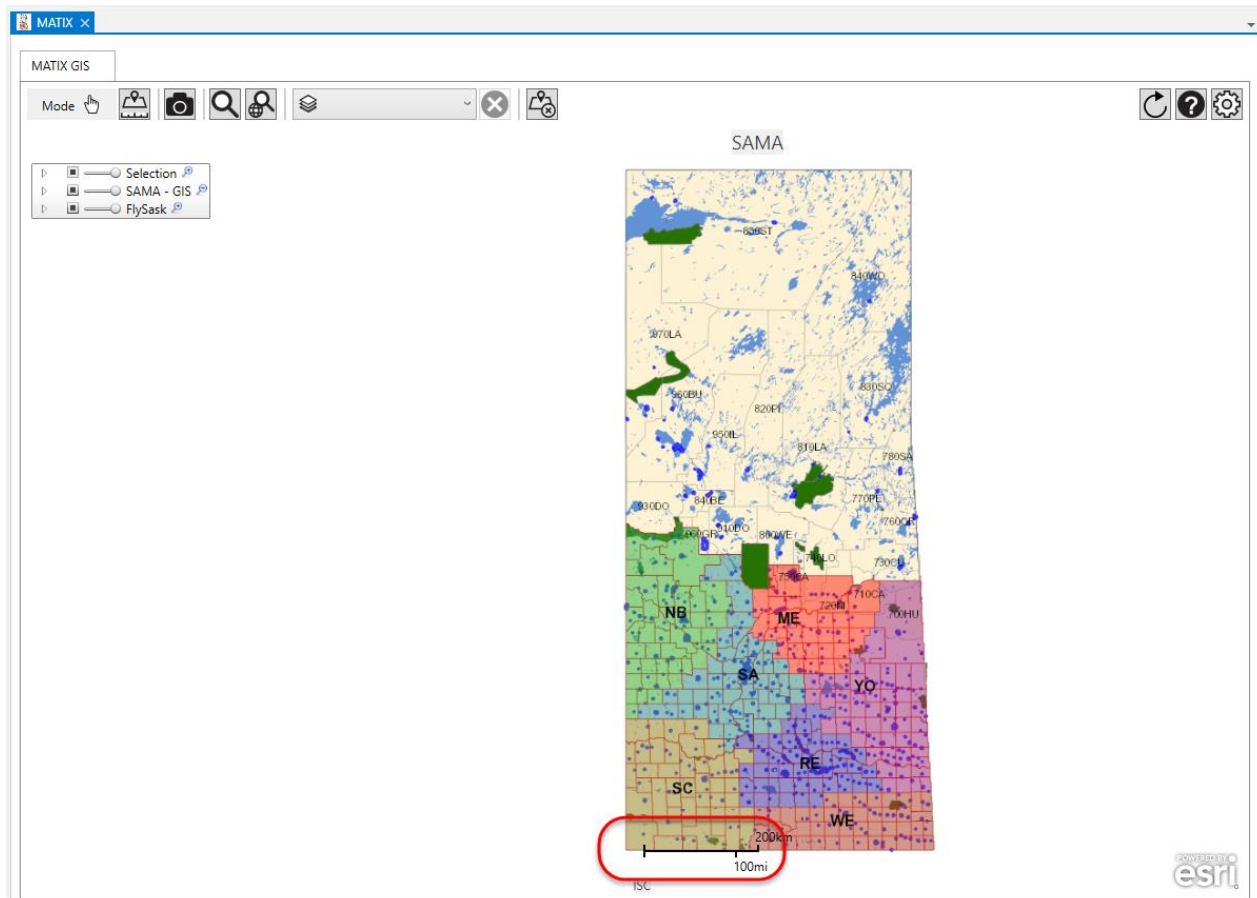
After the override values have been entered, the **Reset the default values** button that is located beside the group label *Map Extent* will be enabled. To reset the default values...

1. Click **Reset the default values**.

2. A confirmation window will be displayed, with the confirmation message, “Reset the default map extent?”.
3. Click Yes to accept and reset the values.
4. When the values have been reset, the **Reset the default values** button will be disabled.

Viewing the results in Govern

When the extent values have been reset, return to the Matix GIS interface in Govern. An indication that the issue has been reset is the presence of the **Distance Scale** at the bottom of the map is an indication of the correction, in addition the map projection will be flat.



APPENDIX

Matix Tables

The following tables have been added or modified to implement this feature.

- USR_PARM_MATIX_BASEMAP
 - Added field - SPATIAL_REFERENCE_ID has been moved to the table:
- USR_PARM_MATIX, 5 new fields
 - Added field - MAP_EXTENT_XMIN (float, null)
 - Added field - MAP_EXTENT_XMAX (float, null)
 - Added field - MAP_EXTENT_YMIN (float, null)
 - Added field - MAP_EXTENT_YMAX (float, null)
 - Added field - SPATIAL_REFERENCE_ID (int, null)

Changes to the Matix Table

These table changes have been Included in the following release versions:

- 6.0.1804.0480
- 6.1.1803.0829
- 6.1.1804.0921