**Purpose:**

This document describes how to add a simple spatial layer in GeoServer. The intention is to quickly expose a data layer for use by GeoNetwork. This will be linked from a metadata record stored in GeoNetwork.

This is well described in the GeoServer User manual, along with extensive and advanced styling considerations not discussed here.

| **Step** | **Major Activity** | **References, Forms and Details** |
| --- | --- | --- |
| 1 | Sign onto GeoServer, providing an ID and password with administrator privileges |  |
| 2 | Create a workspace | This is a way of grouping layers, for instance from a single supplier or by theme |
| 3 | Identify a store | This is a location where similar data is stored. Common instances include a folder of shp files, and one or more tables containing spatial data within a database. |
| 4 | Create a Style (optional)   * Click on “style” * Enter a short title * Select “copy from” * Make changes * Select “validate” at bottom, scroll to top to see if okay * Select “submit” |  |
| 5 | Create a layer   * Click “add a new resource” * Choose <workspace>: <atlasLayer>   + Click “publish” to open the layer for editing |  |
| 6 | Editing – First tab (Data)   * Name – don’t change, because it will link to the layer * Title – change to something reasonable, but short. Spaces encouraged. * Coordinate reference system. Choose something appropriate (e.g. EPSG:3005) * Bounding Boxes   + Click “compute from data”     - Should generally be in range 0 to 1,000,000   + Click “compute from native bounds”     - Geographic: longMin, latMin, longMax, latMax |  |
| 7 | Editing – Second tab (Publishing)   * Style   + choose one, or accept Default * Save (at bottom of page) | * Saves the layer |
| 8 | Layer Preview   * On layer of choice, select   + Open Layers     - May need to pan and zoom to see result   + Google Earth     - Should display properly (without big red X) | * If Google result displays red X, determine what is wrong and fix * Otherwise, layer is available for linking to metadata |