tf.contrib.gan.losses.wargs.modified_generator_loss

```
modified_generator_loss(
    discriminator_gen_outputs,
    label_smoothing=0.0,
    weights=1.0,
    scope='generator_modified_loss',
    loss_collection=tf.GraphKeys.LOSSES,
    reduction=losses.Reduction.SUM_BY_NONZERO_WEIGHTS,
    add_summaries=False
)
```

Defined in `tensorflow/contrib/gan/python/losses/python/losses_impl.py`.

Modified generator loss for GANs.

L = -log(sigmoid(D(G(z))))

This is the trick used in the original paper to avoid vanishing gradients early in training. See `Generative Adversarial Nets` (https://arxiv.org/abs/1406.2661) for more details.

Args:

- `discriminator_gen_outputs`: Discriminator output on generated data. Expected to be in the range of (-inf, inf).
- `label_smoothing`: The amount of smoothing for positive labels. This technique is taken from `Improved Techniques for Training GANs` (https://arxiv.org/abs/1606.03498). `0.0` means no smoothing.
- `weights`: Optional `Tensor` whose rank is either 0, or the same rank as `discriminator_gen_outputs`, and must be broadcastable to `labels` (i.e., all dimensions must be either `1`, or the same as the corresponding dimension).
- `scope`: The scope for the operations performed in computing the loss.
- `loss_collection`: collection to which this loss will be added.
- `reduction`: A `tf.losses.Reduction` to apply to loss.
- `add_summaries`: Whether or not to add summaries for the loss.

Returns:

A loss Tensor. The shape depends on `reduction`.

Last updated November 2, 2017.