

## Appendix 3: Technical Specification of Operationalizations of Conditions and Policies

### Conditions:

	Violent Incidents	Asymmetric Biases	Unpredictability of bias assignment and Activation changes	Agent class transformation rules	Agents Listening to Broadcasts
No violence	0%	None	5000 unpredictability (moderation factor)	None	None
violence	2.5%	5, 15: (-1 → +3) 0, 8: (-3 → +1)	5000 unpredictability (moderation factor)	<p>Basic Agent activated on 5 or 15 ----- .001 probability--→ influential2</p> <p>Basic Agent activated on 5 or 15 ----- .001 probability--→ fanatic</p> <p>Basic Agent activated on 9 or 12 --- .001 probability--→ entrepreneur</p> <p>Basic Agent not activated on 5 or 15 -- -.001 probability-→ scared agent</p> <p>Influential2 Agent activated on 0 or 8 --- .001 probability-→ basic agent</p> <p>After twenty time steps all agents who have transformed, except fanatics, return to their original agent class.</p>	<p>Eligible Agents listen for up to twenty time steps following each violent incident.</p> <p>Eligible Agents: In Middle East Polity and Whose Repertoires include: 2,8,&amp;9 or 5 &amp; 12 or 12 &amp; 15 or 5 &amp; 19 or 0 and within Rectangle (19,48,54,75)</p>

<b>Extreme regional disturbance</b>	5%	5, 15: (-1 → +4) 0, 8: (-4 → +1)	10000 unpredictability, fund_mob, bias range ±4	<p>Basic Agent activated on 5 or 15 ----- .001 probability--→ influential2</p> <p>Basic Agent activated on 5 or 15 ----- .001 probability--→ fanatic</p> <p>Basic Agent activated on 9 or 12 --- .001 probability--→ entrepreneur</p> <p>Basic Agent not activated on 5 or 15 -- -.001 probability--→ scared agent</p> <p>Influential2 Agent activated on 0 or 8 --- .001 probability--→ basic agent</p> <p>After twenty time steps all agents who have transformed, except fanatics, return to their original agent class.</p>	<p>Eligible Agents listen for up to twenty time steps following each violent incident.</p> <p>Eligible Agents: In Middle East Polity and Whose Repertoires include: 2,8,&amp;9 or 5 &amp; 12 or 12 &amp; 15 or 5 &amp; 19 or 0 and within Rectangle (19,48,54,75)</p>
<b>fundamenta list mobilization (fund_mob)</b>	2.5%	5, 15: (-1 → +3) 0, 8: (-3 → +1)	All agents in polity activated on ID 1 that have ID 15 in subscription and are not subscribed to 0, 2, or 8 are activated on ID 15 (136 agents).		

Policy Responses:

	Broadcaster Change	Asymmetric Biases Change	Repertoire Change	Agentclass Change	Agents Listening to Broadcasts
US Diplomacy	ID 0 added to Independent	ID's 5 & 15 only (0 and 8 have full bias range) In ERI condition 0,2, and 8 limited to +3 max bias	None	None	Standard
Repression	circle(38,60,14) excluded in restrictions on listeners	None	None	All basic agents in polity that are activated on ID 0 and subscribed to ID 13 but not to IDs 5, 15, 12, 1, or 4 are changed to influential2's (about 34% of basic agents activated on ID 0). Six of these, located centrally in clusters of new influentials, are then changed to influential3's. Altogether 59 influential2's are added to the regime apparatus and 6 influential3s.	Reduced:  Agents within circle of radius 14, centered at 38,60—even if otherwise eligible to listen to broadcasts following a violent incident, do not do so.
US Diplomacy with Repression	None	ID's 5 & 15only (0 and 8 have full bias range; except in ERI [see above])	None	None	Reduced: Agents within circle of radius 14, centered at 38,60—even if otherwise eligible to listen to broad- casts following a violent incident, do not do so.

NOTE: In cases of interaction changes are only noted when they are different from the combination of the entries for the individual manipulations. Also, entries for Policies override any comparable ones for Conditions (i.e. Asymmetric Biases).