IR SATELLITE ALERTS PROCESS (as of August12, 2017)

- IR Detections are clustered together based on overlapping footprints and scored for impact based on number of detections and time.
 - Only detections with a confidence >30.
 - MODIS numerical scale from 0-100.
 - VIIRS three classes mapped to 10, 90, 90 (Low, Nominal, High).
 - o Recent IR Detections have a higher score that older ones.
 - 0-6 Hours: 1 X number of detections.
 - 6-12 Hours: ½ X number of detections.
 - 12-24 Hours: ¼ X number of detections.
 - o Multiple Sources (VIIRS + MODIS) have a higher score than single source detects.
 - Single Sources: ½ X score.
 - Dual Source: 1 X score.
 - Triple Source: 2 X score.
- Alerts are tagged as 'Emerging Fires'
 - o if IRWIN FireDiscoveryDate is within 2 days.
 - o IRWIN Fire is within approx 800m at 23N, 600m at 45M.
 - Event Score is increased by
 - 2 X score if Wildcad < 24 hours.
 - 1.5 X score if Wildcad <36 hours.
- Alerts are tagged as 'Extended Attack' if
 - o IRWIN FireDiscoveryDate is between 2 and 21 days.
 - o IRWIN Fire is within approx 5km at 23N, 4km at 45M.
 - Event Score is increased by
 - 2 X score if ICS-209 Sitrep has been submitted.

NOTE: MODIS/VIIRS data updates every 30 minutes in SA.