

CDC Category A

- fever ($\geq 38^{\circ}\text{C}$, 100.4°F) and pneumonia or acute respiratory distress syndrome (based on clinical or radiological evidence);

AND EITHER

- a history of travel from countries in or near the Arabian Peninsula within 14 days before symptom onset;

OR

- close contact with a symptomatic traveler who developed fever and acute respiratory illness (not necessarily pneumonia) within 14 days after traveling from countries in or near the Arabian Peninsula;

OR

- is a member of a cluster of patients with severe acute respiratory illness (e.g., fever and pneumonia requiring hospitalization) of unknown etiology in which MERS-CoV is being evaluated, in consultation with State and local health departments.

CDC Category B:

- close contact with a confirmed or probable case of MERS while the case was ill **AND** has a fever ($> 100^{\circ}\text{F}$) or symptoms of respiratory illness within 14 days following the close contact. **NOTE:** This is a lower threshold than Category A.

Close Contact

Close contact is defined as:

- Any person who provided care for the patient, including a healthcare worker or family member, or had similarly close physical contact.
- Any person who stayed at the same place (e.g., lived with, visited) as the patient while the patient was ill.

Probable Case

A probable case is a PUI with absent or inconclusive laboratory results for MERS-CoV infection who is a close contact of a laboratory-confirmed MERS-CoV case.

PRIORITY 1

Ensure optimal care options for all hospitalized patients, lessen the risk of nosocomial infections, and maintain the integrity of the healthcare system

- Hospitalized patients
- Symptomatic healthcare workers

PRIORITY 2

Ensure that those who are at highest risk of complication of infection are rapidly identified and appropriately triaged

- Patients in long-term care facilities with symptoms
- Patients 65 years of age and older with symptoms
- Patients with underlying conditions with symptoms
- First responders with symptoms

PRIORITY 3

As resources allow, test individuals in the surrounding community of rapidly increasing hospital cases to decrease community spread, and ensure health of essential workers

- Critical infrastructure workers with symptoms
- Individuals who do not meet any of the above categories with symptoms
- Health care workers and first responders
- Individuals with mild symptoms in communities experiencing high COVID-19 hospitalizations

NON-PRIORITY

- Individuals without symptoms

iBeacon - Advertising packet structure

| Byte offset | Default value | Description | Properties |
|-------------|---------------|--|--------------------|
| 0 | 0x02 | Data length – 2 bytes | constant preamble |
| 1 | 0x01 | Data type – flags | constant preamble |
| 2 | 0x06 | LE and BR/EDR flag | constant preamble |
| 3 | 0x1a | Data length – 26 bytes | constant preamble |
| 4 | 0xff | Data type - manufacturer specific data | constant preamble |
| 5 | 0x4c | Manufacturer data | constant preamble |
| 6 | 0x00 | Manufacturer data | constant preamble |
| 7 | 0x02 | Manufacturer data | constant preamble |
| 8 | 0x15 | Manufacturer data | constant preamble |
| 9 | 0xf7 | Proximity UUID 1 st byte | set user UUID |
| 10 | 0x82 | Proximity UUID 2 nd byte | set user UUID |
| 11 | 0x6d | Proximity UUID 3 rd byte | set user UUID |
| 12 | 0xa6 | Proximity UUID 4 th byte | set user UUID |
| 13 | 0x4f | Proximity UUID 5 th byte | set user UUID |
| 14 | 0xa2 | Proximity UUID 6 th byte | set user UUID |
| 15 | 0x4e | Proximity UUID 7 th byte | set user UUID |
| 16 | 0x98 | Proximity UUID 8 th byte | set user UUID |
| 17 | 0x80 | Proximity UUID 9 th byte | set user UUID |
| 18 | 0x24 | Proximity UUID 10 th byte | set user UUID |
| 19 | 0xbc | Proximity UUID 11 th byte | set user UUID |
| 20 | 0x5b | Proximity UUID 12 th byte | set user UUID |
| 21 | 0x71 | Proximity UUID 13 th byte | set user UUID |
| 22 | 0xe0 | Proximity UUID 14 th byte | set user UUID |
| 23 | 0x89 | Proximity UUID 15 th byte | set user UUID |
| 24 | 0x3e | Proximity UUID 16 th byte | set user UUID |
| 25 | xx* | Major 1 st byte | set major value |
| 26 | xx* | Major 2 nd byte | set major value |
| 27 | xx* | Minor 1 st byte | set minor value |
| 28 | xx* | Minor 2 nd byte | set minor value |
| 29 | 0xb3 | Signal power (calibrated RSSI@1m) | signal power value |

Beacons - Scan response packet structure

| Byte | Default value | Description | Properties |
|------|---------------|---------------------------------------|------------------------------------|
| 1 | 08* | Data length – 8 bytes | device name length (max. 15 bytes) |
| 2 | 09 | Data type – complete local name | fixed |
| 3 | 4b* | Local name | set device name |
| 4 | 6f* | Local name | set device name |
| 5 | 6e* | Local name | set device name |
| 6 | 74* | Local name | set device name |
| 7 | 61* | Local name | set device name |
| 8 | 6b* | Local name | set device name |
| 9 | 74* | Local name | set device name |
| 10 | 02 | Data length – 2 bytes | fixed |
| 11 | 0a | Data type – tx power level | fixed |
| 12 | f4 | Tx Power value | set tx power value |
| 13 | 0a | Data length – 10 bytes | fixed |
| 14 | 16 | Data type – service data | fixed |
| 15 | 0d | Service UUID | fixed |
| 16 | d0 | Service UUID | fixed |
| 17 | xx | Beacon ID 1 st byte | fixed |
| 18 | xx | Beacon ID 2 nd byte | fixed |
| 19 | xx | Beacon ID 3 rd byte | fixed |
| 20 | xx | Beacon ID 4 th byte | fixed |
| 21 | xx | Firmware version 1 st byte | fixed |
| 22 | xx | Firmware version 2 nd byte | fixed |
| 23 | xx | Battery level | depends on current level |

Hierarchy of Controls

Most
effective



Least
effective

