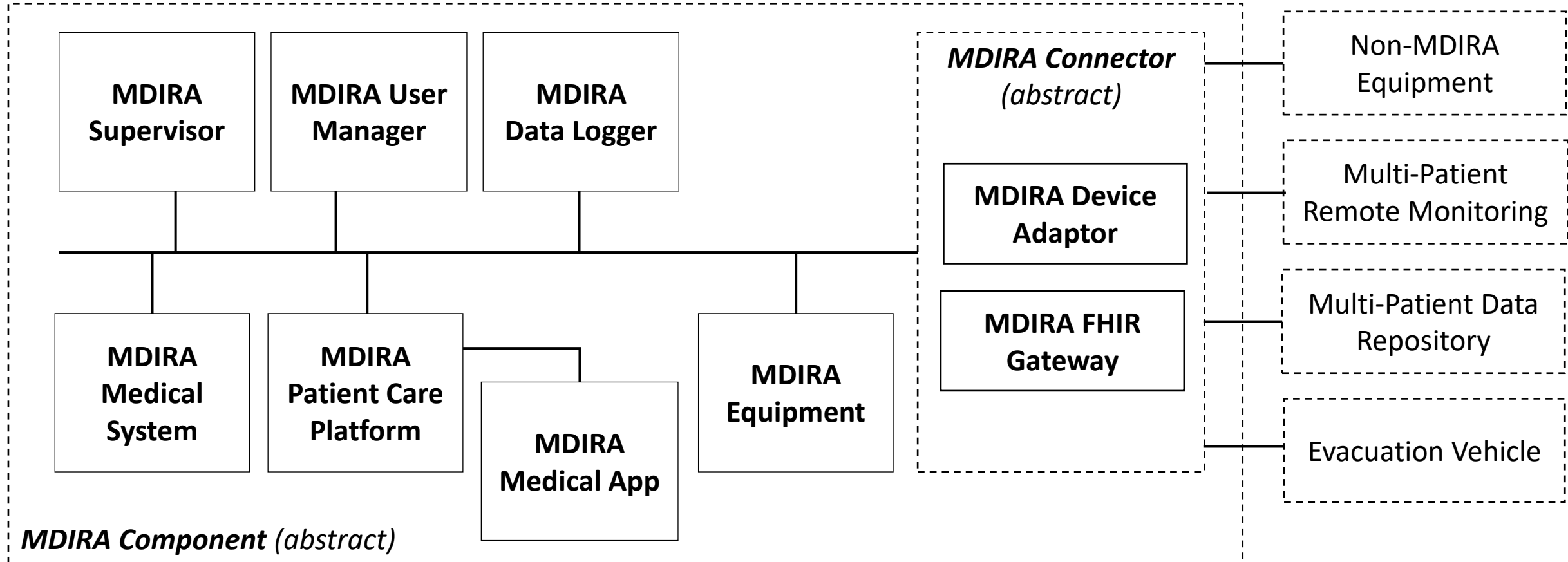# MDIRA Profile Supplement Diagrams

(For Use in IHE DEV MDIRA Profile Documents & Confluence Pages)
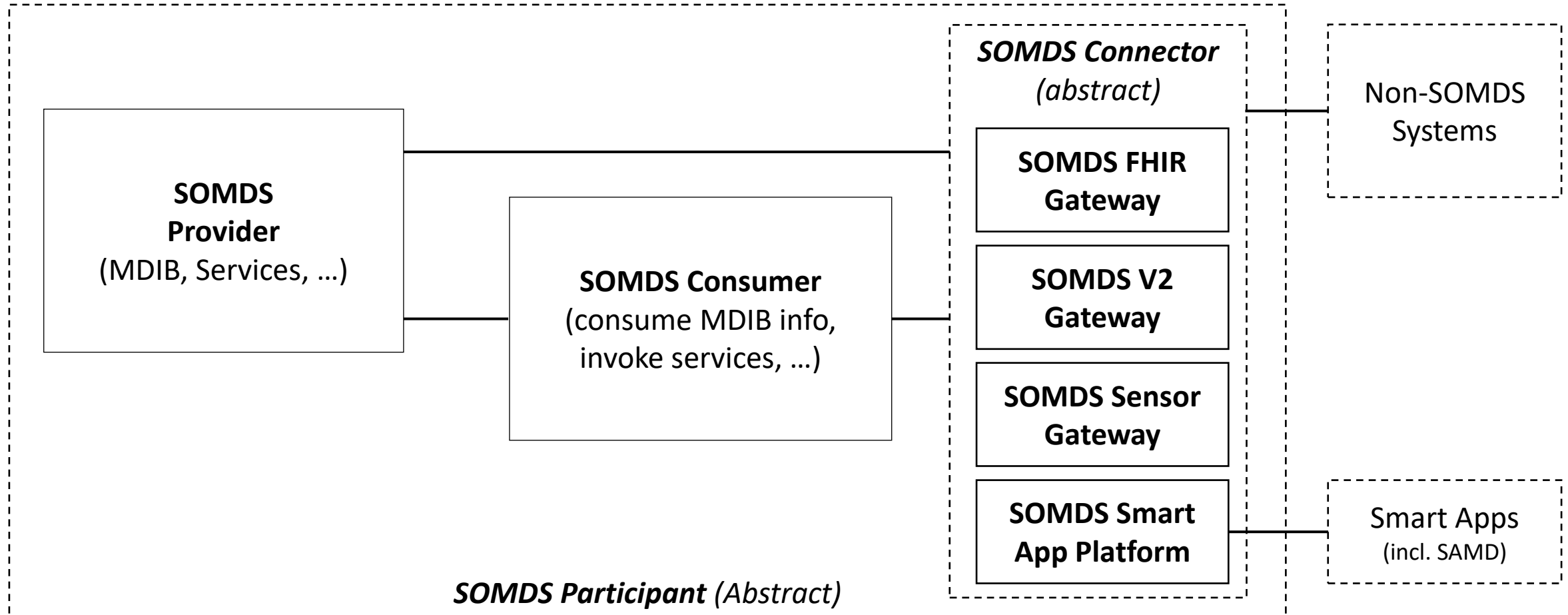
# MDIRA Actor Diagram

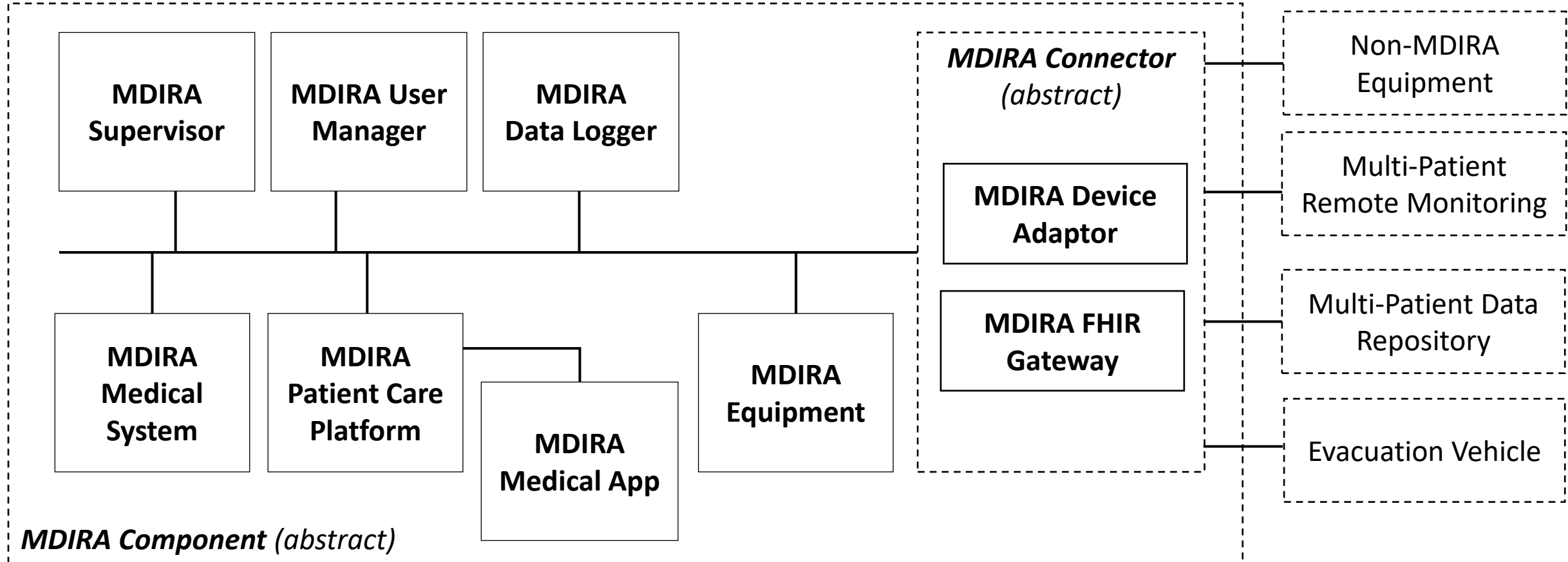2021.02.18A



NOTE:  MDIRA RI Systems (e.g., Therapy Coordinator SAMD) would be discussed in the Use Case / application sections.

# SDPi-P Actor Diagram

2021.02.18A

# MDIRA Actor Diagram
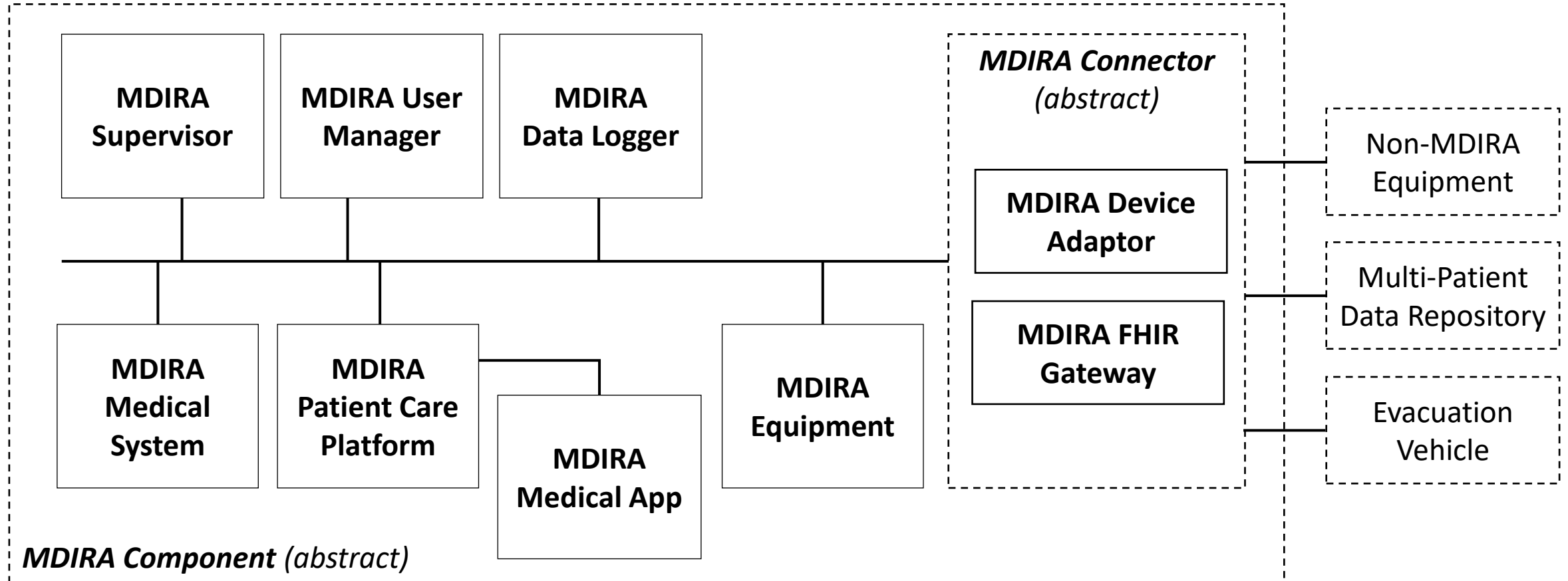
NOTE: MDIRA RI Systems (e.g., Therapy Coordinator SAMD) would be discussed in the Use Case / application sections.
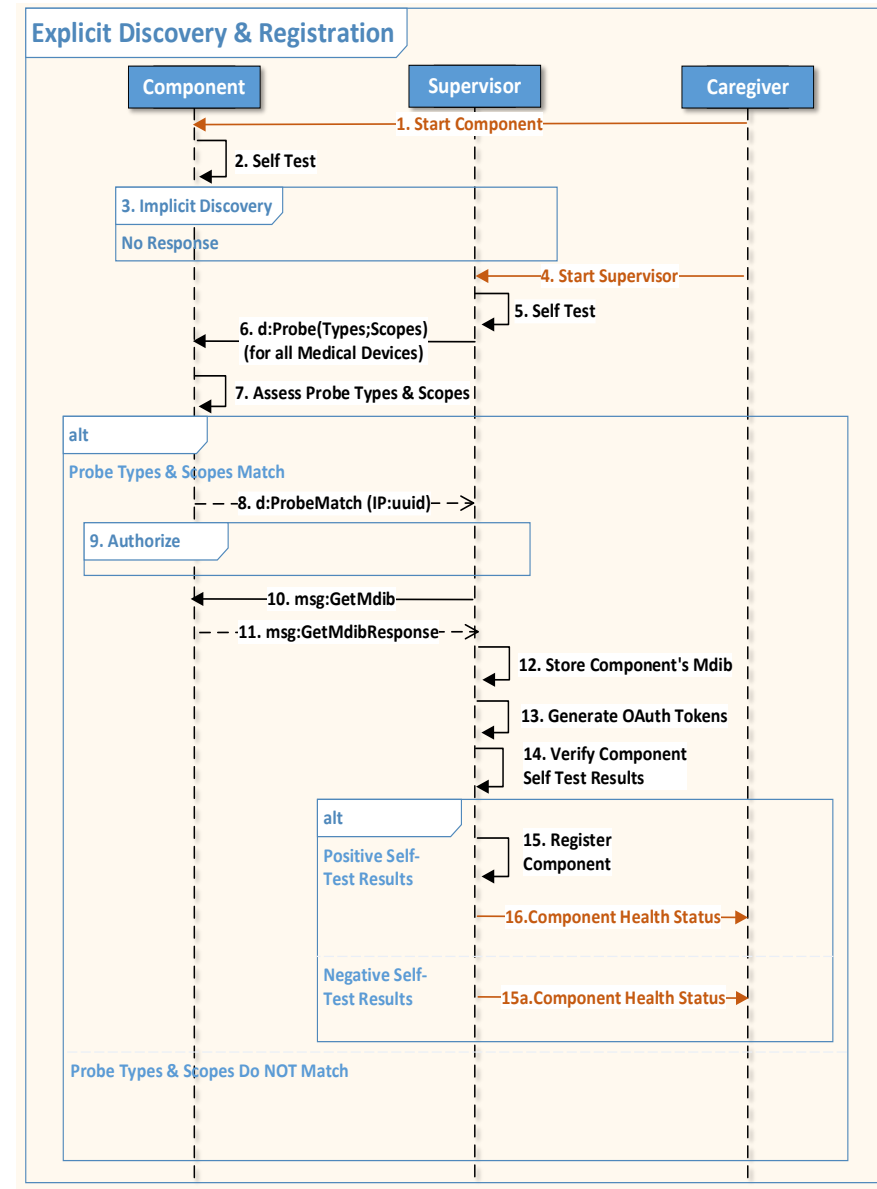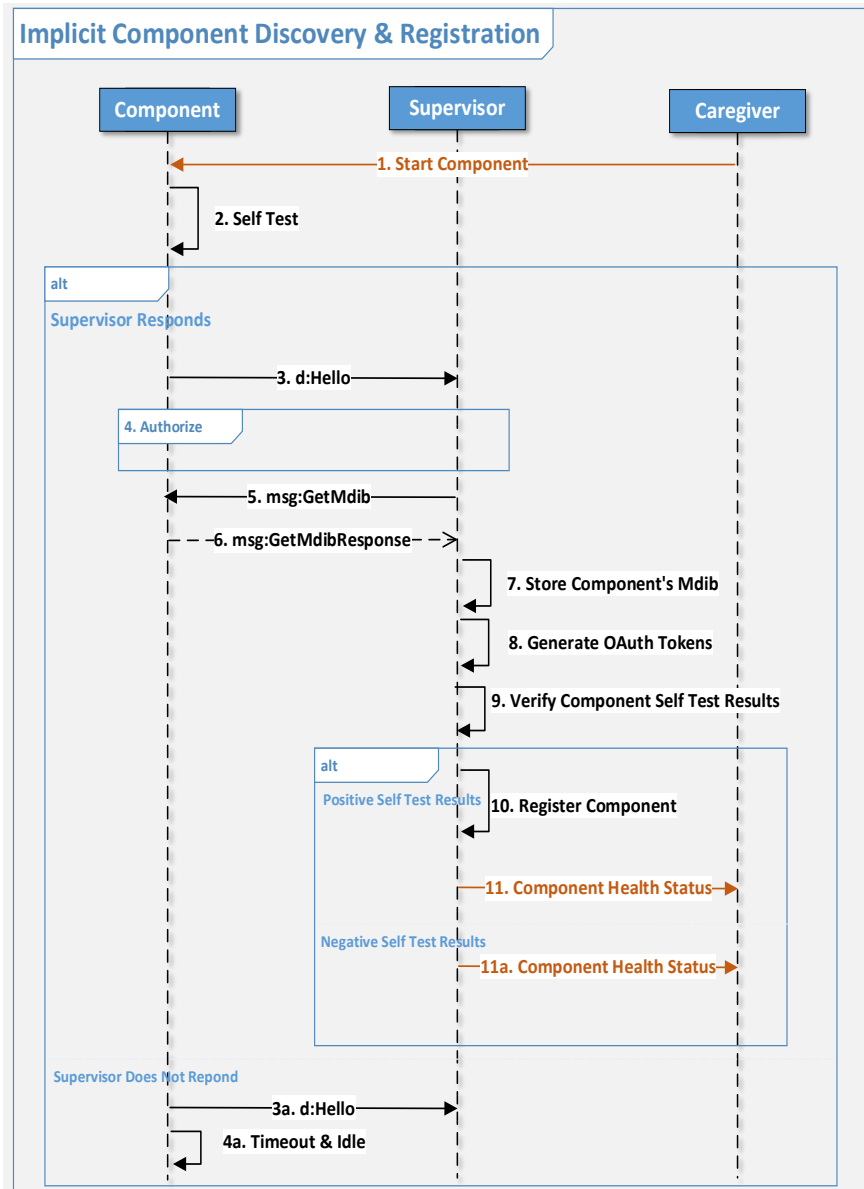
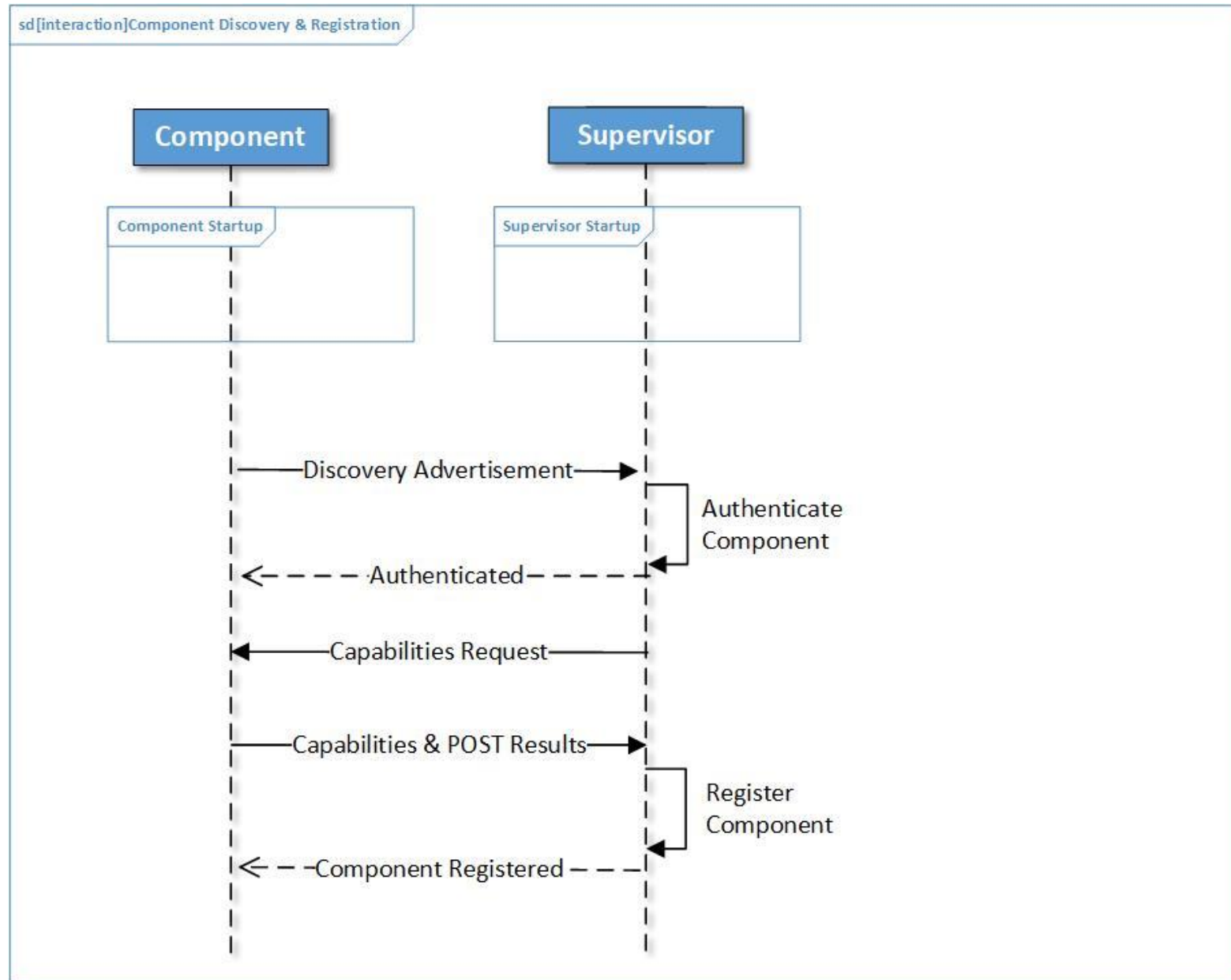# MDIRA Actor Diagram

NOTE: MDIRA RI Systems (e.g., Therapy Coordinator SAMD) would be discussed in the Use Case / application sections.

# MDIRA RI Examples

2021.01.28A



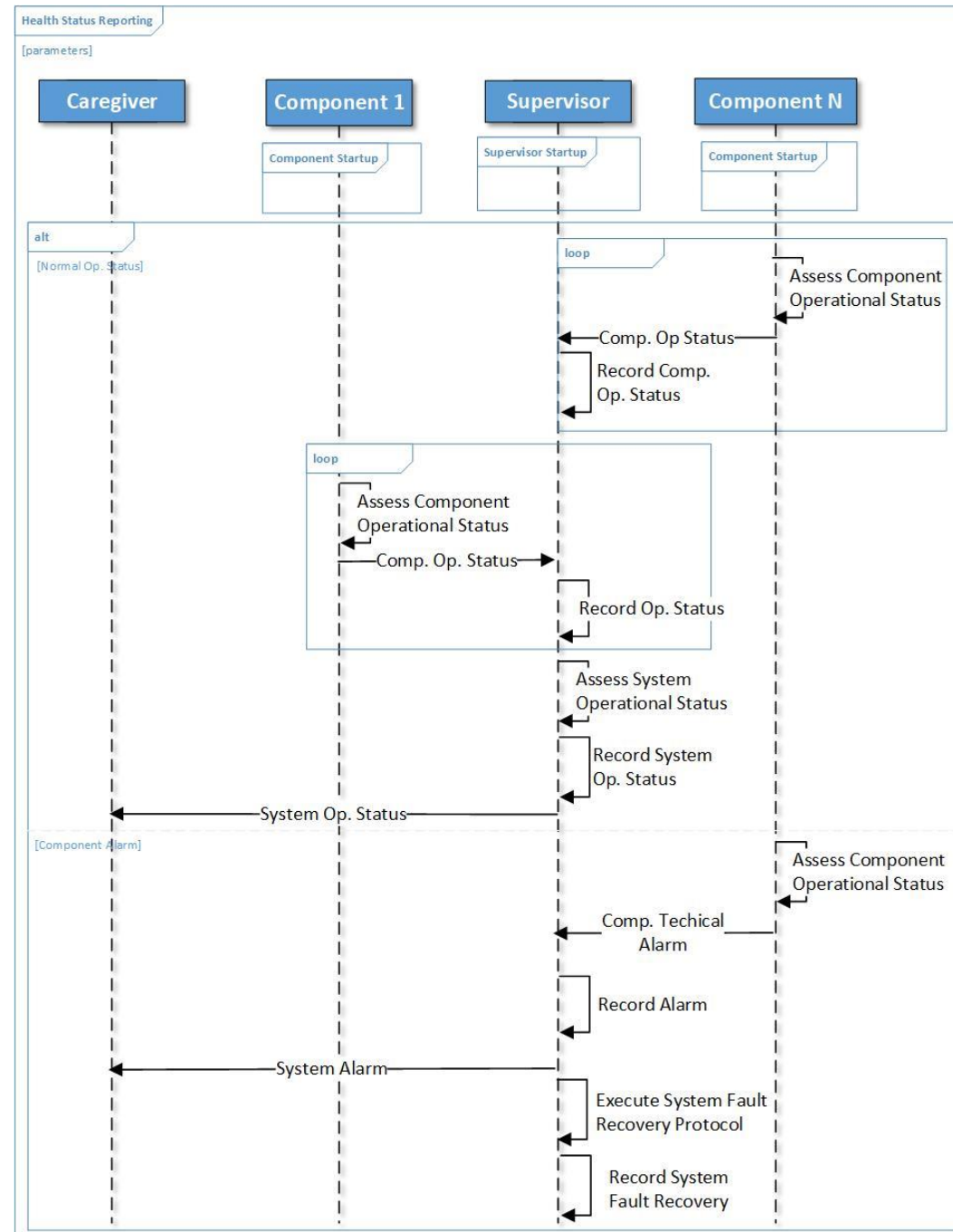## Implicit Component Discovery & Registration

Component — Supervisor — Caregiver

1. Start Component
2. Self Test

**alt**

**Supervisor Responds**

3. d:Hello
4. Authorize
5. msg:GetMdib
6. msg:GetMdibResponse
7. Store Component's Mdib
8. Generate OAuth Tokens
9. Verify Component Self Test Results

**alt**

**Positive Self Test Results**
10. Register Component
11. Component Health Status

**Negative Self Test Results**
11a. Component Health Status

**Supervisor Does NOT Repond**

3a. d:Hello
4a. Timeout & Idle

## Explicit Discovery & Registration

Component — Supervisor — Caregiver

1. Start Component
2. Self Test

3. Implicit Discovery
No Response

4. Start Supervisor
5. Self Test
6. d:Probe(Types;Scopes) (for all Medical Devices)
7. Assess Probe Types & Scopes

**alt**

**Probe Types & Scopes Match**

8. d:ProbeMatch (IP:uuid)
9. Authorize
10. msg:GetMdib
11. msg:GetMdibResponse
12. Store Component's Mdib
13. Generate OAuth Tokens
14. Verify Component Self Test Results

**alt**

**Positive Self-Test Results**
15. Register Component
16. Component Health Status

**Negative Self-Test Results**
15a. Component Health Status

**Probe Types & Scopes Do NOT Match**

# MDIRA 2.0 Examples

sd[interaction]Component Discovery & Registration

From 2.0 spec. Figure A-1 Component Discovery, Authentication & Registration

# MDIRA 2.0 Examples

From 2.0 spec. Figure A-2
MDIRA Component Health
and Status Reporting

# MDIRA Components Diagram

Source: MDIRA 2.0 (draft)
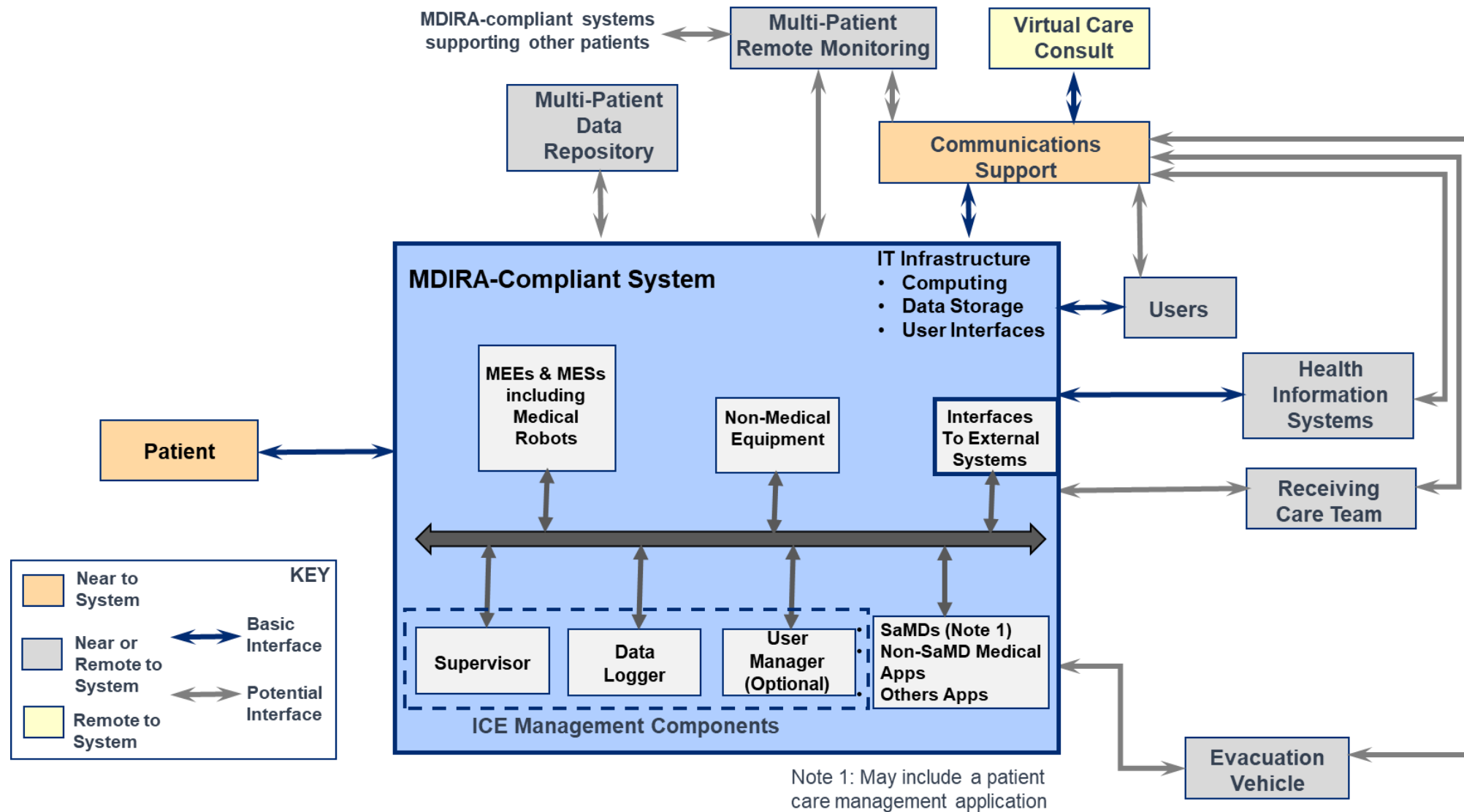
# MDIRA SDC Ref. Implementation Diagram

Source: IHE DEV "MDIRA Brief Profile Proposal", 2020.09.
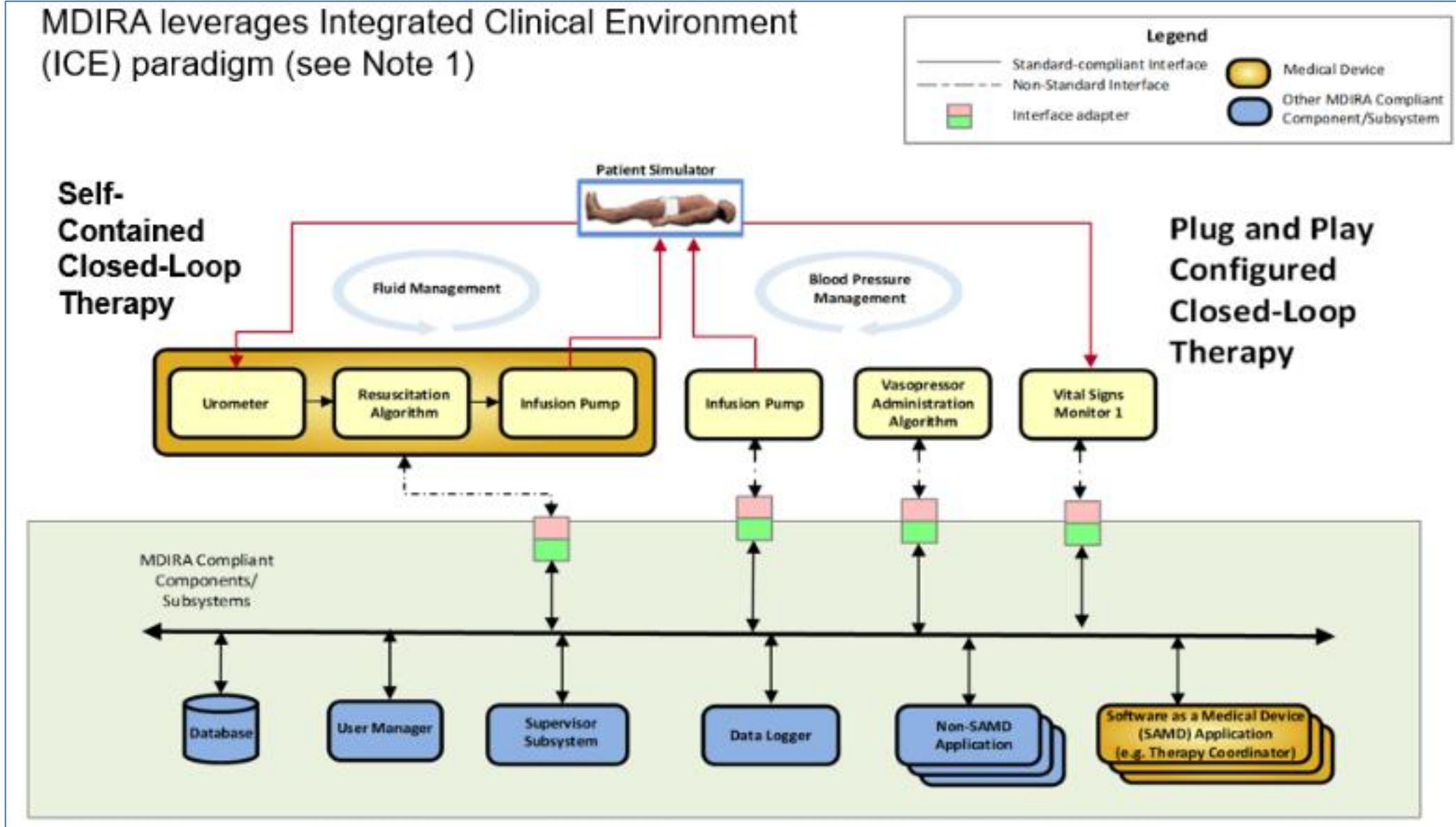
# Diagram Archive & Stuff

# MDIRA Actor Diagram
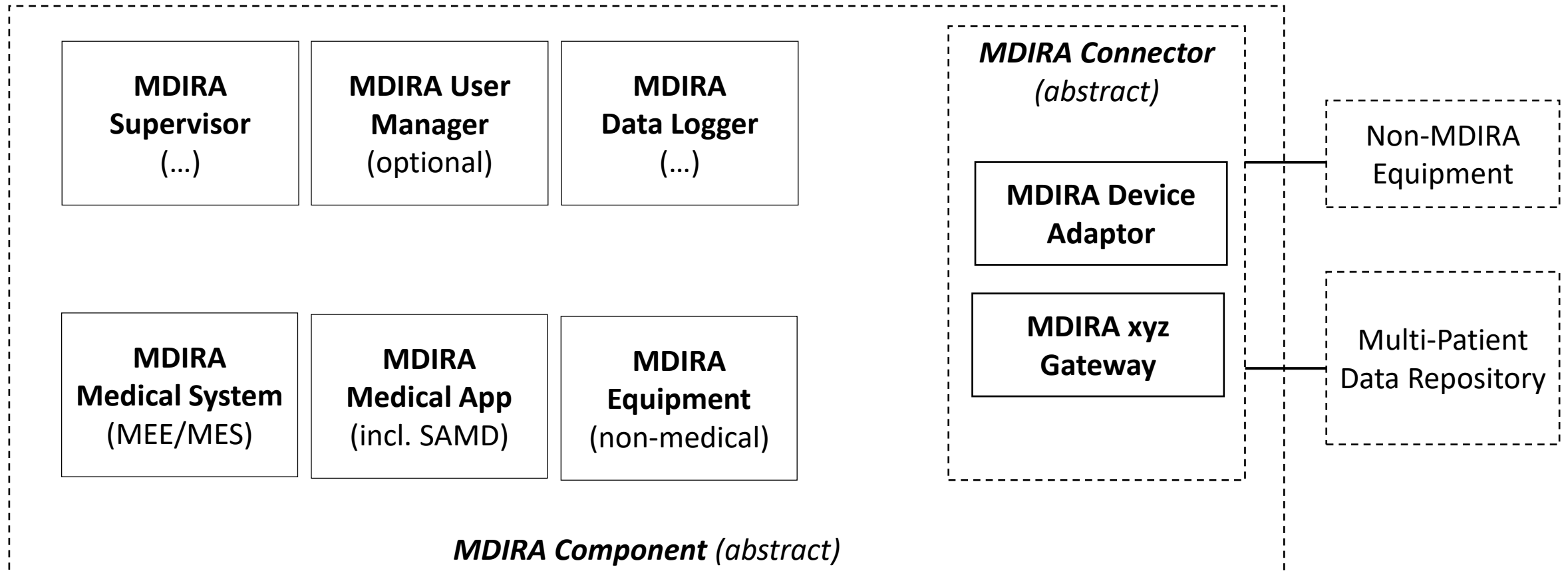
**MDIRA Supervisor** (...)

**MDIRA User Manager** (optional)

**MDIRA Data Logger** (...)

**MDIRA Medical System** (MEE/MES)

**MDIRA Medical App** (incl. SAMD)

**MDIRA Equipment** (non-medical)

*MDIRA Connector* (abstract)

**MDIRA Device Adaptor**

**MDIRA xyz Gateway**

Non-MDIRA Equipment

Multi-Patient Data Repository

*MDIRA Component* (abstract)

NOTE:  MDIRA RI Systems (e.g., Therapy Coordinator SAMD) would be discussed in the Use Case / application sections.

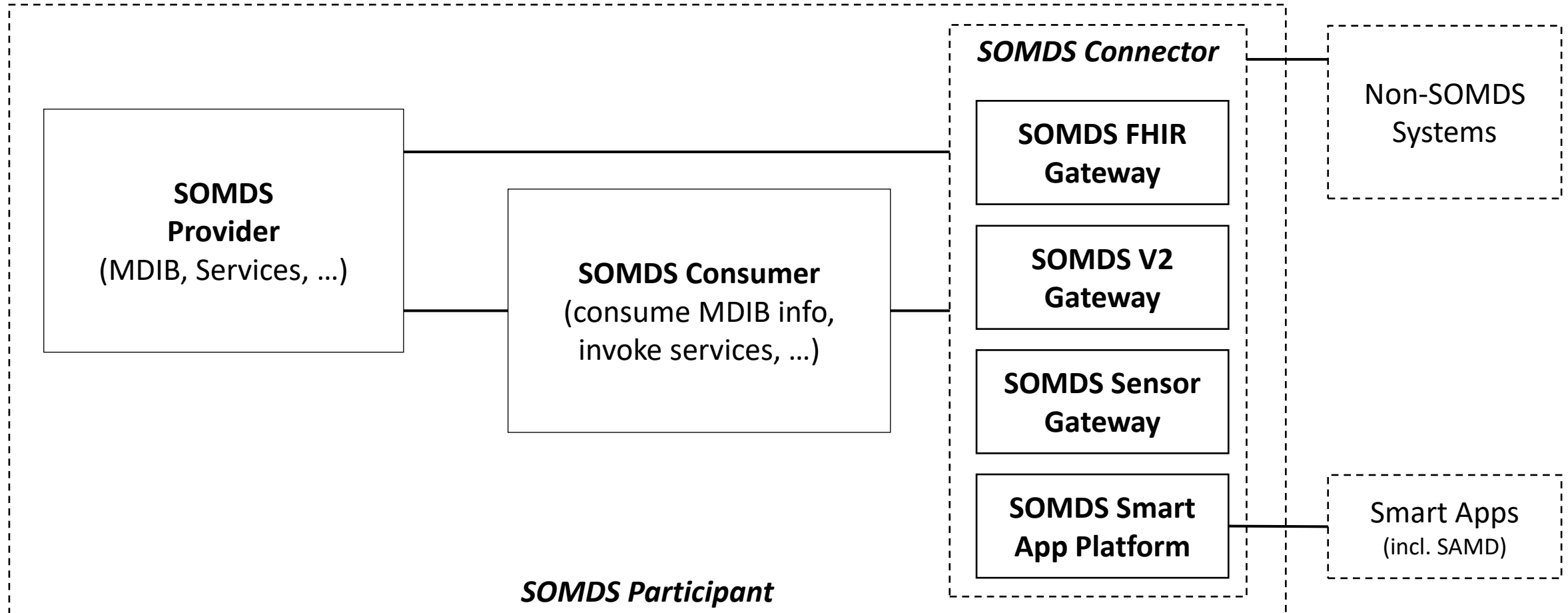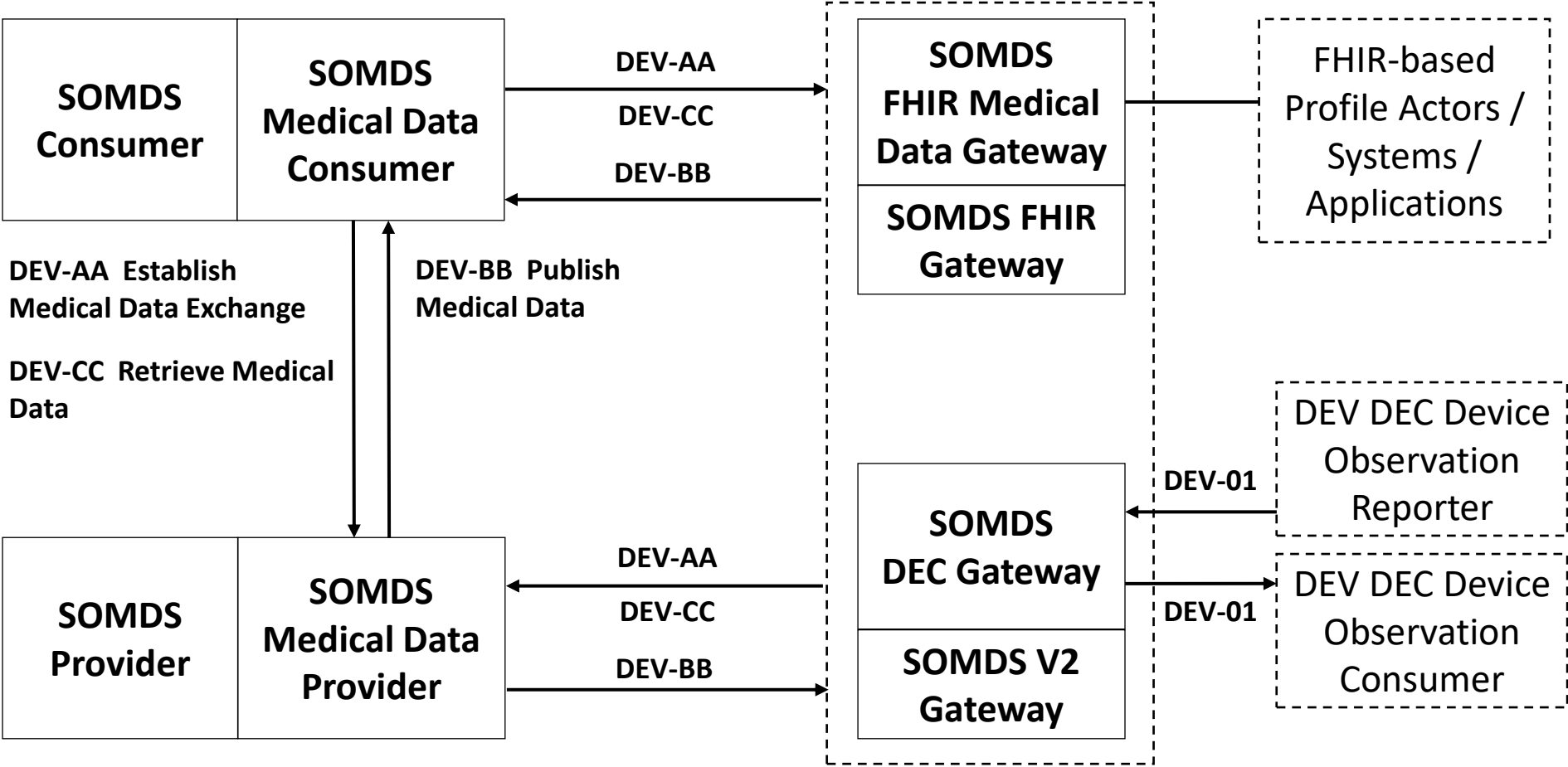# MDIRA Actor Diagram
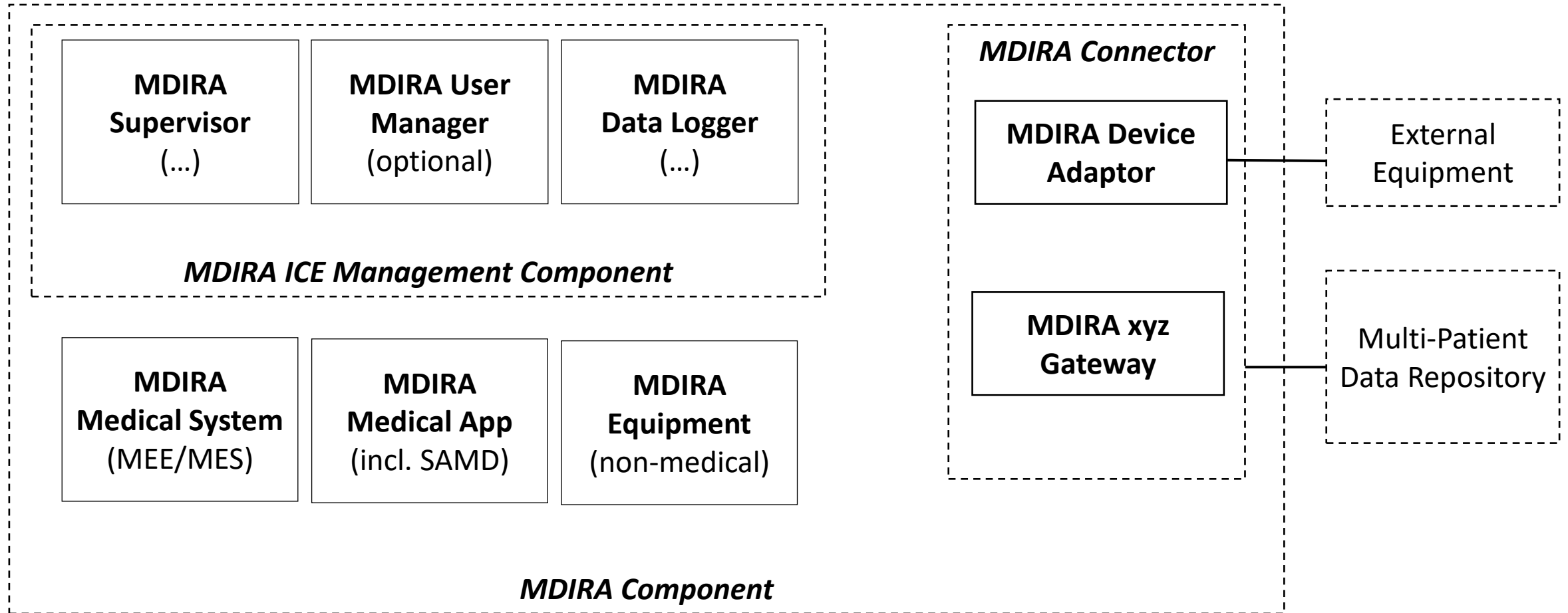
NOTE:  MDIRA RI Systems (e.g., Therapy Coordinator SAMD) would be discussed in the Use Case / application sections.
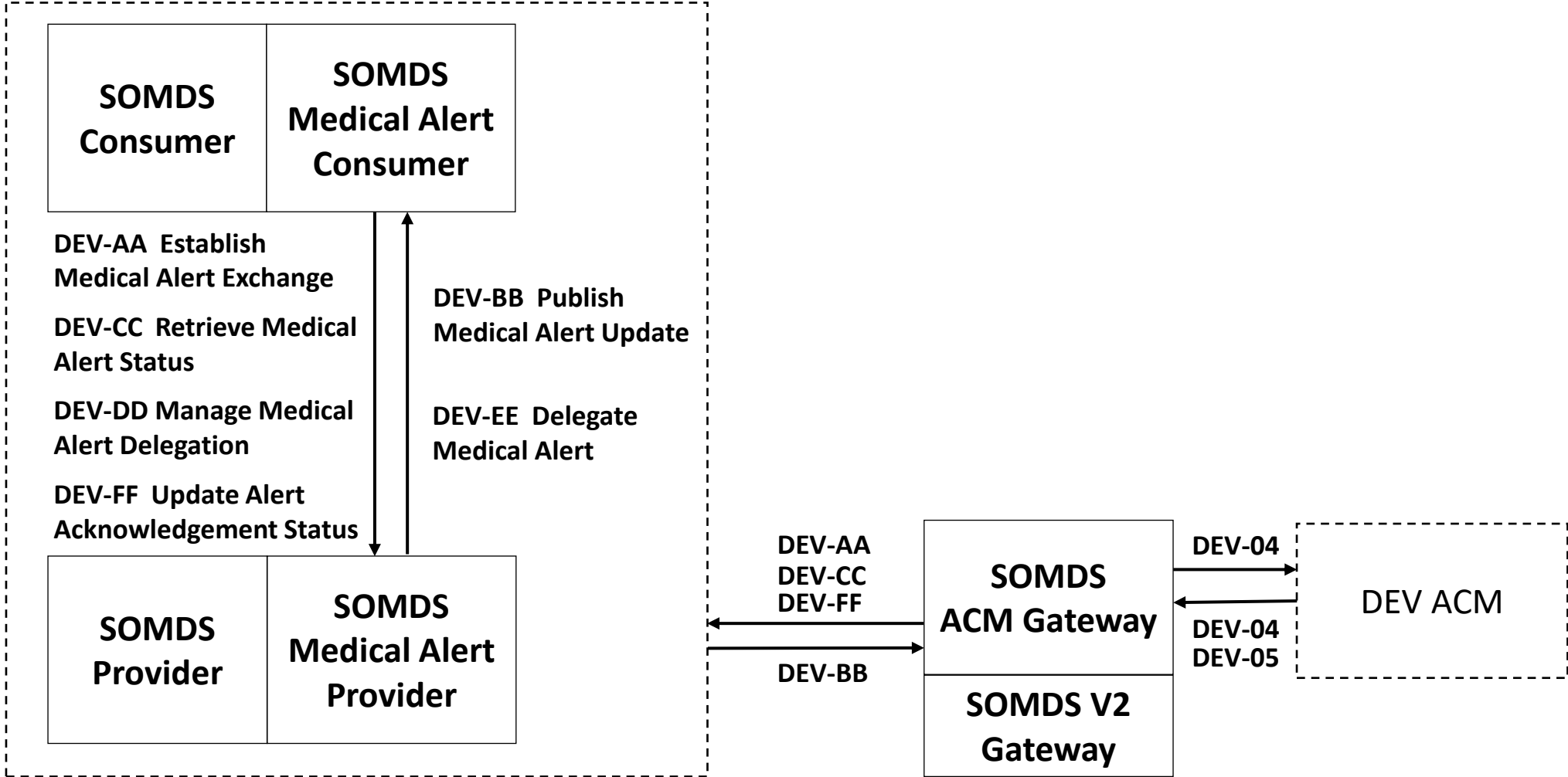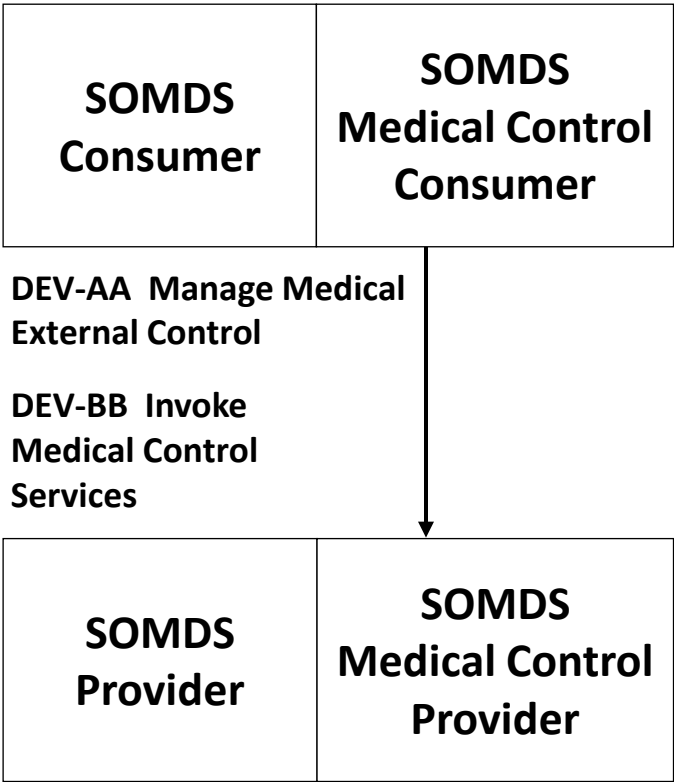
# SDPi-P Actor Diagram

# SDPi-R Actor Diagram

# SDPi-A Actor Diagram

# SDPi-xC Actor Diagram

SDPi-P Content Actor Diagram

2020.08.12A

BICEPS Content Creator

Provide Content

BICEPS Content Consumer