

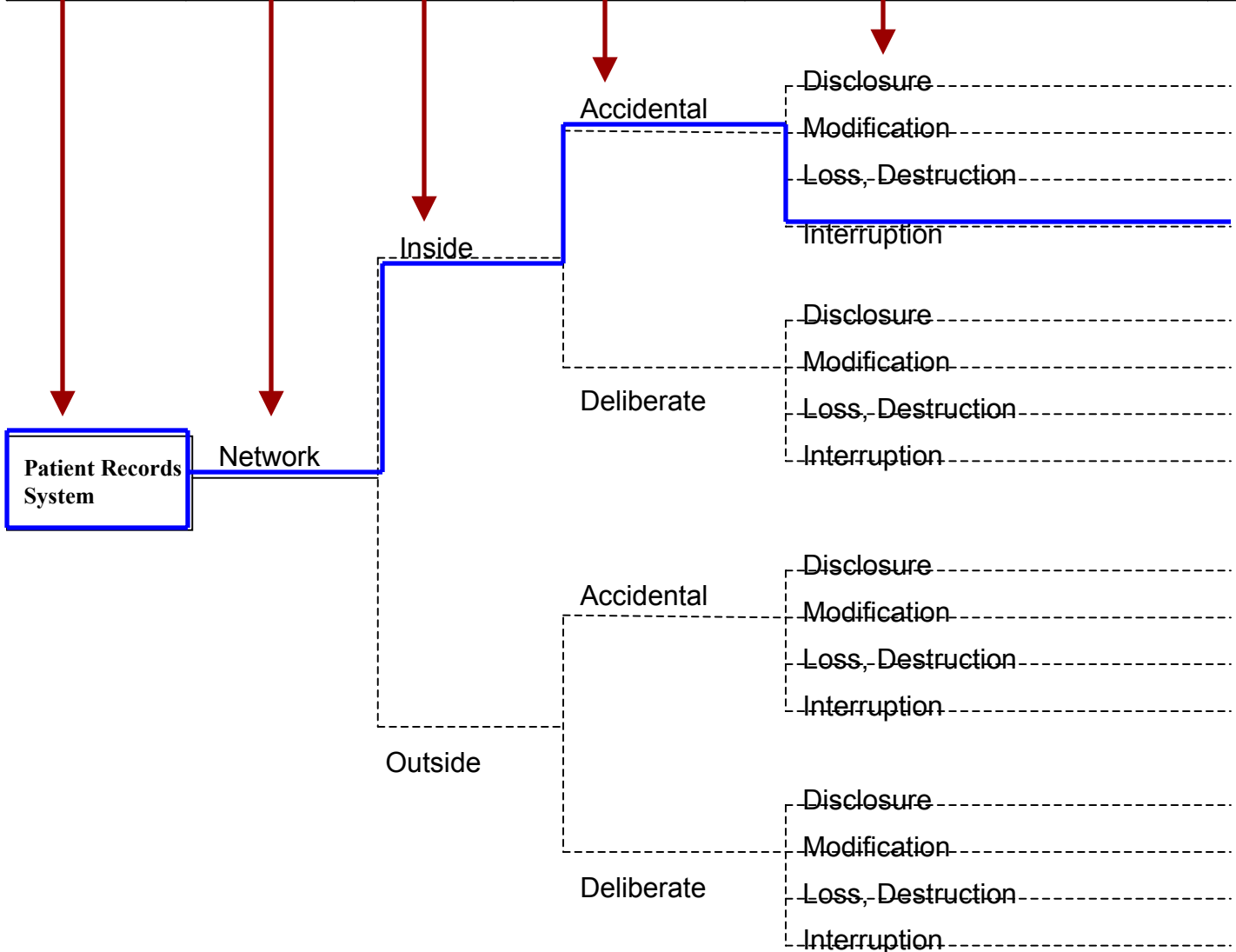
Systems Criticality Matrix

| | Confidentiality | Integrity | Availability |
|---|-----------------|-----------|--------------|
| CPSI Hospital Information System | H | H | H |
| Exchange Server MV5000-1 | H | H | H |
| EXT Old Hospital System with Records | H | H | H |
| NF3400-1 User Files, Accounting, and Encoder Software | H | H | H |
| Pyxis Systems Pharmacy and Inventory | H | H | H |
| Dictaphone Transcription System | H | H | H |
| E500 Appliance Virus Detection System | M | H | H |
| E800II Blood Gas system and Per se' Billing System | H | H | H |
| Chart Link System Physician Access thru SSL | H | H | H |
| Linux System Undecided of use for now, still testing | L | M | M |
| JJH2 Used for OWA and new helpdesk | H | H | H |
| Panasonic Video Security System | H | H | H |
| Rembrandt Sleep Lab System | H | H | H |

OCTAVESM

- ⊕ Operationally Critical, Threat, Asset and Vulnerability Evaluation
 - ⊕ Sort through complex organizational and technological issues
 - ⊕ Defines an approach to information security risk evaluations
 - ⊕ Comprehensive
 - ⊕ Systematic
 - ⊕ Context driven
 - ⊕ Self-directed
 - ⊕ Self directed
 - ⊕ Business and IT part of the team
 - ⊕ Three Phases
 - ⊕ Build asset-based threat profiles
 - ⊕ Identify infrastructure vulnerabilities
 - ⊕ Develop security strategy and plans

| Asset | Method | Actor | Motive | Outcome | Impact |
|-------|--------|-------|--------|---------|--------|
|-------|--------|-------|--------|---------|--------|



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| M | M | L | M | L | - |
| M | M | M | M | H | |
| M | M | L | M | L | - |
| M | M | H | M | H | |
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| M | M | L | M | L | - |
| M | M | M | M | H | |
| M | M | H | M | H | - |
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| M | M | L | M | L | - |
| M | M | M | M | H | |
| M | M | H | M | H | - |
| M | M | H | M | H | |
| | | | | | |
| H | H | L | M | L | - |
| M | M | H | M | H | |
| M | M | H | M | H | - |
| M | M | H | M | H | |
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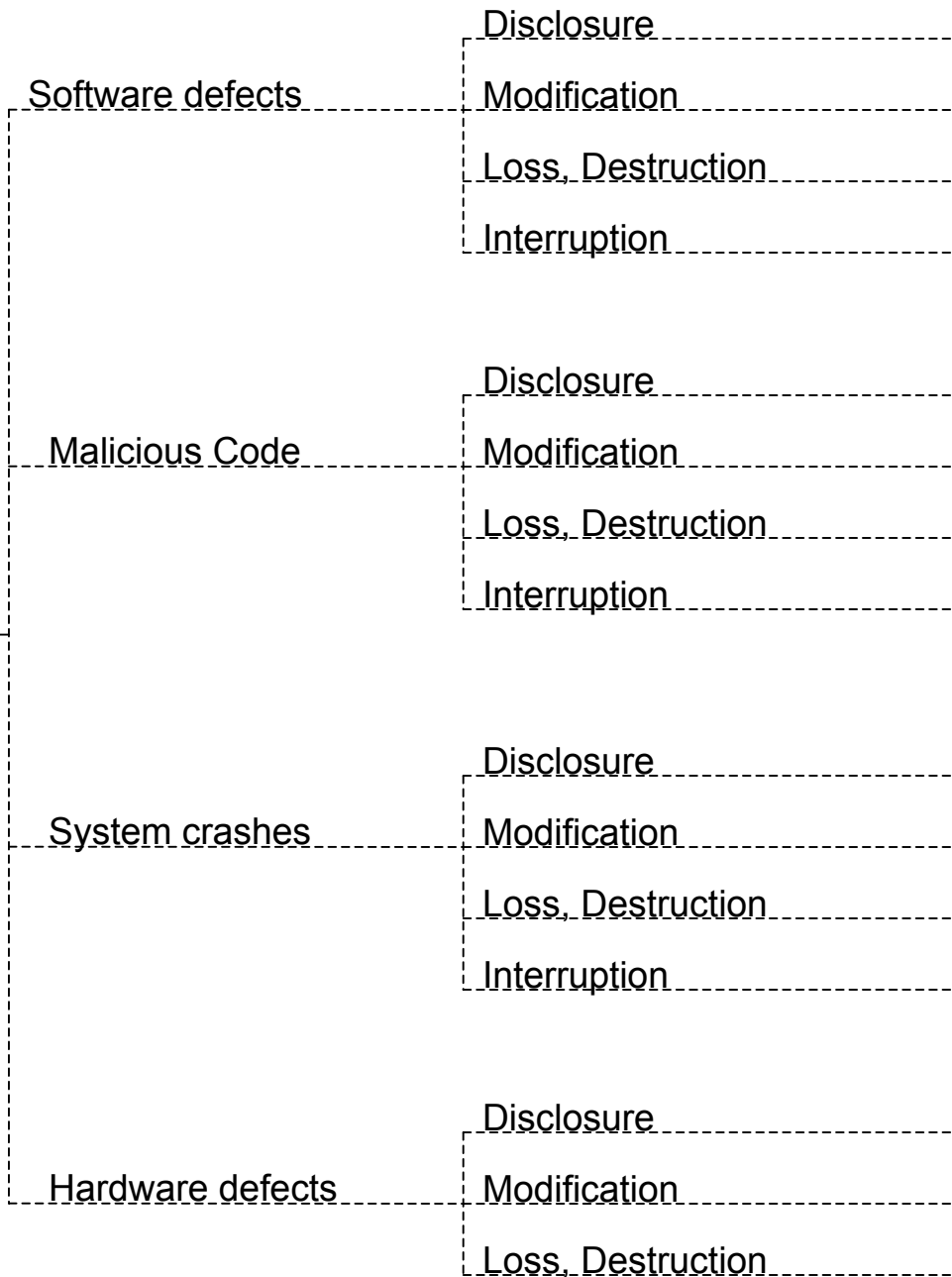
Human Actors Using Network Access

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Patient Records System

Threat Profile: System Problems



| | | | | | |
|---|---|---|---|---|---|
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| M | M | L | M | L | - |
| M | M | H | M | H | |
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| M | M | L | M | L | - |
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Human Actors Using Network Access

Basic Risk Profile

| Security Practice Areas | | | | | | | | | | | | | | | | | | | | |
|-------------------------|----------|------------|--------------|--------------|----------|------------------|---------------|---------------|----------------|------------------|----------------|----------------|-----------------|----------|------------|-------------------|---------------|--------|-------|----------|
| Probability | | | Strategic | | | | Operational | | | | | | Approach | | | | | | | |
| Very Much | Somewhat | Not At All | Sec Training | Sec Strategy | Sec Mgmt | Sec Policy & Reg | Coll Sec Mgmt | Cont Planning | Phys Acc Cntrl | Monitor Phys Sec | Sys & Net Mgmt | Monitor IT Sec | Authen & Author | Vul Mgmt | Encryption | Sec Arch & Design | Incident Mgmt | Accept | Defer | Mitigate |
| H | x | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | x | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| H | x | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | x | |
| L | | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |
| L | | x | R | R | R | Y | R | Y | | | Y | Y | R | R | R | R | Y | | | x |