Cybersecurity in ATM
System of Systems approach

Focus on: Patch Management

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Agenda

Security Patching relevant to ATM system

- Emphasis on deliberate planning
- Lack of single solution
- Integrated approach required

Recommended security patching process flow

- Takes into account different architecture components
- Threat modelling
- Critical Vs Non Critical aspects based on priority

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- Identity Management System
- Cybersecure architecture

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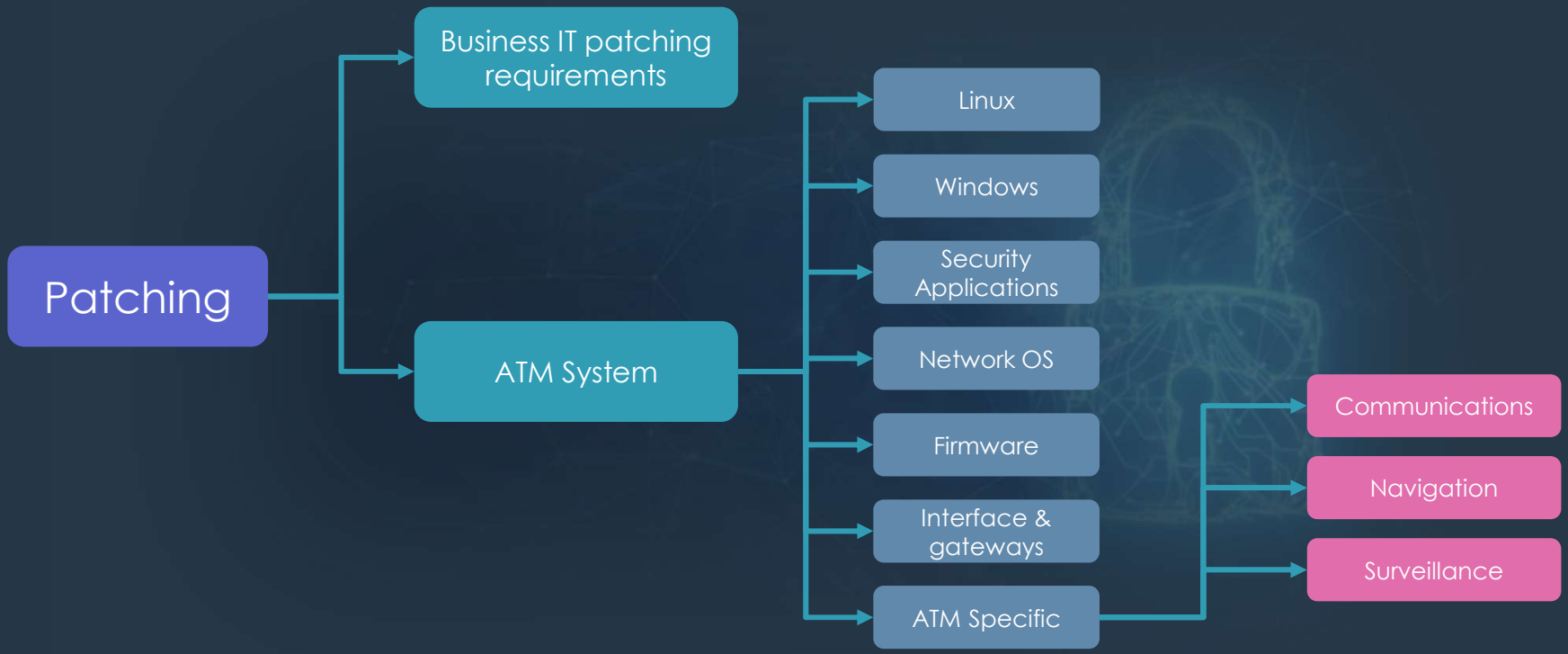
Security Patching Strategy



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Patching Considerations

- Software Assurance Level – DO278A etc
- Performance and Business Continuity -> Architecture
- Vulnerability management
- System Development Life Cycle – Bespoke applications/components
- Patching mechanism – in air - gapped environment
- Impact on critical operations
- Priority of patching – based on Threat Modelling

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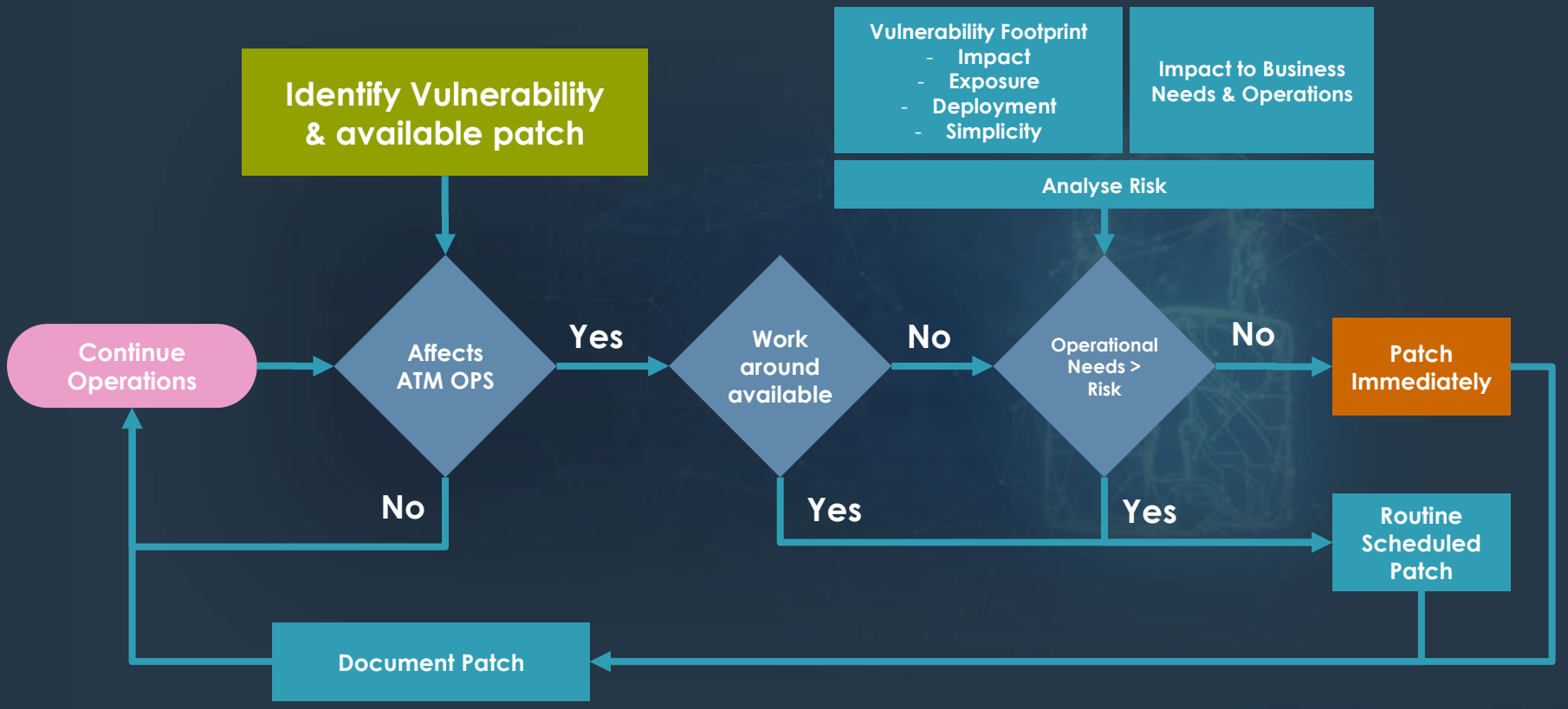
Process Flow Example – Critical Infrastructure



Source: Cybersecurity & Infrastructure Security Agency

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Summary

Security Patching requires deliberate planning

System of Systems approach

Sub-systems / components integrated approach

Thank you

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