Infrastructure Verification as a Service

A Standardized Approach to Infrastructure Documentation and Management

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Infrastructure Verification as a Service (IVaaS)

- Level 1: OSP, Backbone, & Critical Circuits
- Level 2: Horizontal Cabling & WAO
- Level 3: Patching & Cross-Connects

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How is IVaaS Achieved?

Assessment

- 360° Photos
- Space Assessment
- Survey Report

Survey

- Tracing & Toning
- Confined Space Access
- Cable Labels
- Schematics & Site Plans

IVaaS

- Tracking work performed
- Updating Database
- Client Relationship

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360° Photo-Documentation
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OVERVIEW

1. The Paradigm Shift

- The “It is what it is” mentality
- A Standardized Process

2. Predictable Problems

- Limited Resources
- End User Adoption
- Back-Office Process

3. Best Practices

- Processes & Certifications
- Introducing: The Assessment

4. IVaaS: A New Approach

- Confidence in Infrastructure
- Cost/Time Savings
- Reduced Frustration

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Work is Done in the Cloud

"2017 Forecast: $246.8 billion in total worldwide revenue"
– Gartner

"More than 50% of IT spending will be cloud-based by 2018"
- Forbes

"The global public cloud market is growing at a 22% rate and will top $146 billion in 2017, up from just $87 billion in 2015"
- CIO

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The Goal

Maintenance of accurate and actionable data throughout the entirety of an infrastructure's lifespan:

- Accurate Knowledge Base
- Future Planning
- Faster Disaster Recovery
- Fewer disruptions
- Reduced Frustration
- Confidence

"The most common cause of lost connectivity is cut cables. Cables get cut, no one knows who did it, and then things go down."

– David Wallis, CEO
NewConnect

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Source: GSA EIS Transition Planning - Lessons Learned #5, Accurate Telecommunications Service Inventory Needed

considers efforts associated with the operations and management of task orders following award including: service implementation, task order modifications, contractor performance management, and task order close-out.

These three phases are required for all task orders made under EIS throughout its period of performance – and are particularly time-sensitive during transition. Failure to properly plan may jeopardi
entire a
ability o
deadline
oversigh
overall
governn
transitio
contract

sk Order
ask Order
Task Order

"…Inventory validation should be an on-going effort to provide a complete and accurate baseline…"

Whether ordering services during transition or later in the EIS period of performance, agencies must follow the fair opportunity requirement set out in FAR 16.505(b)(1). A summary of FAR requirements is provided in Appendix A. Requirements vary based on the total value of the task order. And regardless of when the task order is awarded, all task orders end on the expiration date of their respective contracts. Best practice approaches to comply with fair opportunity requirements are explained in detail throughout the *Guide*. Appendix A also includes a description of the exceptions to the fair opportunity process allowed by FAR 16.505(b)(2).

3 Acquisition Planning

The *Acquisition Planning* phase begins with the establishment of the Integrated Procurement Team (IPT), execution of a Delegation of Procurement Authority (DPA) with GSA, and registration for access to

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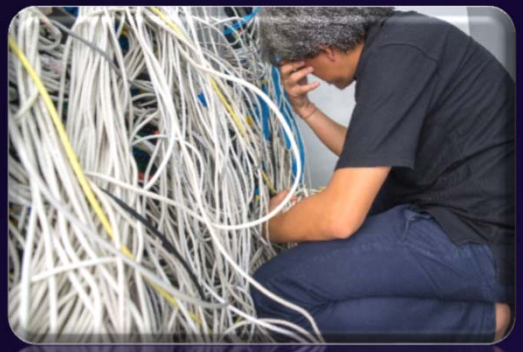
Understanding The Players

1. End User



2. Contractors

3. Industry

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End User & Contractor

"That" Guy

- Key Person Risk
- Site is crippled without him/them
- Limited or non-existent QC

"Those" Guys

"The key, I believe, is to have someone 'own' the responsibility of keeping documentation updated."

–Cindy Montstream, RCDD,
Director of Technology Support & Training, Legrand N.A.

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End User & Contractor

- Project Management
- Software
- Processes
- Training
- Dedicated Resources/Redundancy

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Barriers To Success

"Commitment to cable management is a full time job."

"Do not try to do more than your resources will allow; focus on the important things. "

"Field Surveys are critical to document the accuracy of your infrastructure."

Lessons Learned - LAX. *Mark Pohl, Los Angeles World Airports.*

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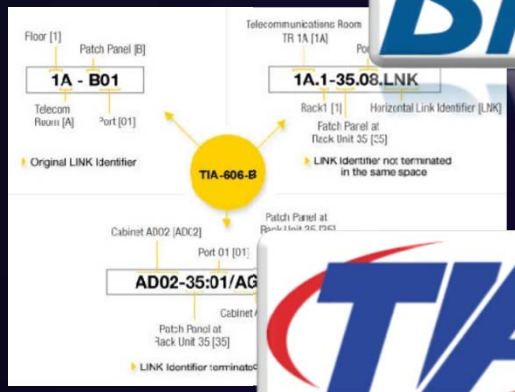
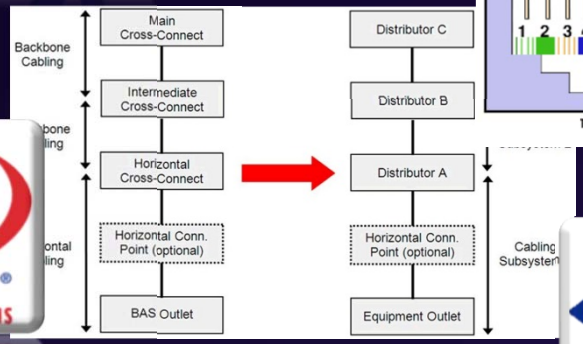
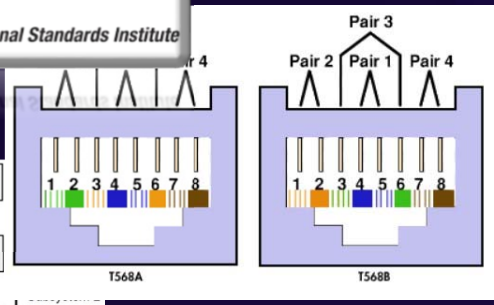
Industry

Current Standards and Training







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ANSI
American National Standards Institute

TIA
ADVANCING GLOBAL COMMUNICATIONS

IEEE
Networking the World™

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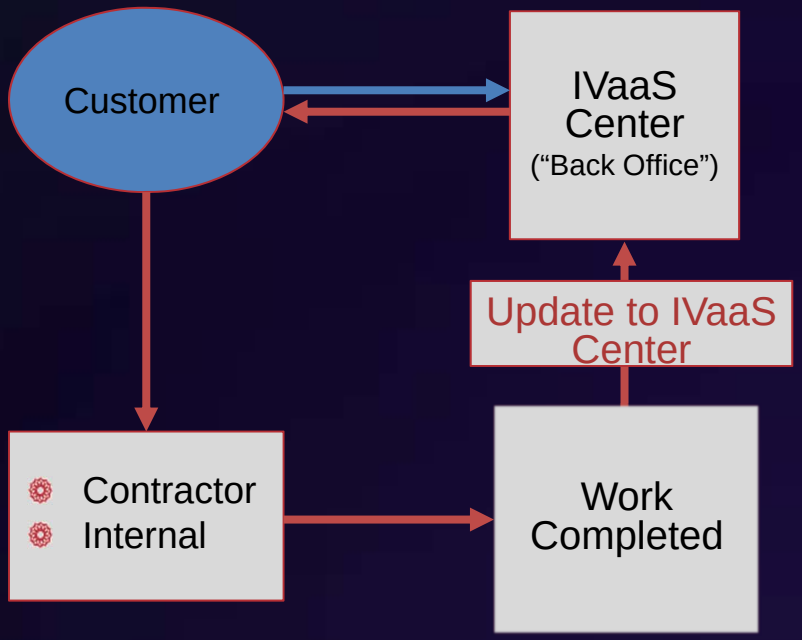
IVaaS Process Structure Basics



"The entire effort of documentation is meaningless if the output is not trustworthy."

–Chris Holbrook, WireCAD

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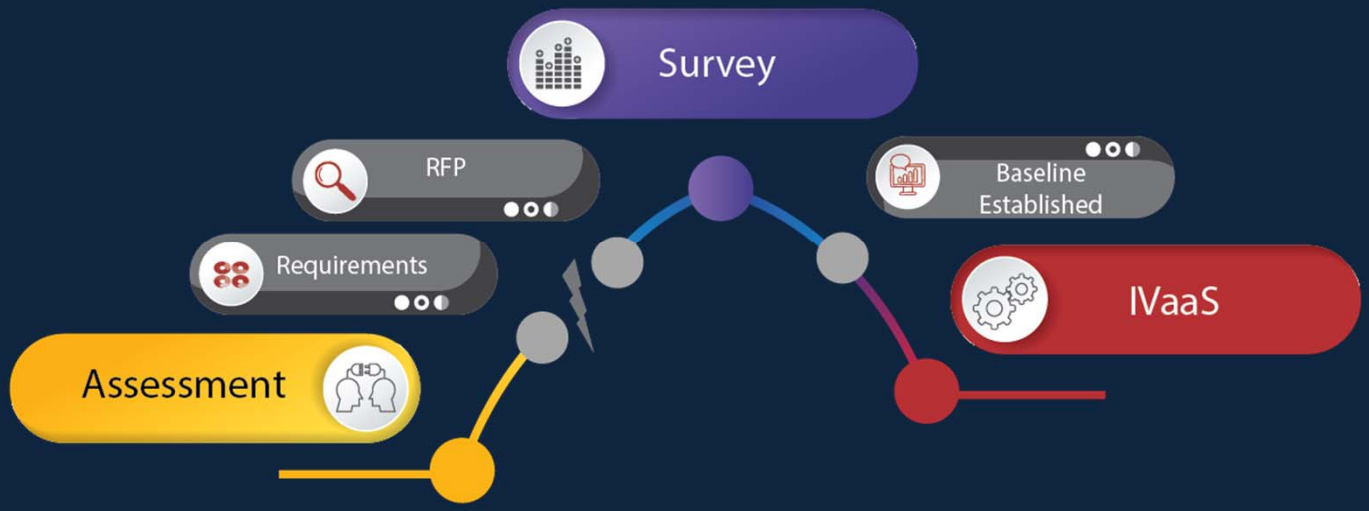
IVaaS
Arc of Opportunity

"Having accurate documentation for service work allows us to significantly reduce our time on site."

–Alberto Luna,
Analyzed Low Voltage
LLC, BICSI Technician



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–Mark Pohl, LAX, Los Angeles World Airports

"Having accurate documentation for service work allows us to significantly reduce our time on site."

–Alberto Luna, Analyzed Low Voltage LLC, BICSI Technician

"The key, I believe, is to have someone 'own' the responsibility of keeping documentation updated."

–Cindy Montstream, RCDD, Director of Technology Support & Training, Legrand N.A.

"Knowing what conduit fill and availability in campus manholes allows you to plan more quickly and efficiently."

–Jerry Allen, PHD Mechanical Engineering, CSRS LLC

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Thank You!

For follow up questions or more information about Infrastructure Verification as a Service, please feel free to contact us:

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