



# ANSI/TIA-942

## AUDIT & CERTIFICATION SERVICES

### Introduction

ANSI/TIA-942 (a.k.a. TIA-942) is a quality standard for data centers that represents worldwide consensus from industry leaders on data center design and build. TIA (Telecommunications Industry Association) is the leading trade association representing the global information and communications technology (ICT) industry through standards development, policy initiatives, business opportunities, market intelligence and networking events. TIA is accredited by ANSI (American National Standards Institute) as a "Standards Developing Organization" (SDO).

The TIA-942 Conformity Audit conducted by EPI provides an extensive and meticulous assessment for conformity to the requirements of the standard involving over 1,200 criteria encompassing Site Location, Architectural, Electrical, Mechanical, Telecommunication, Physical Security, Safety, Fire Detection/Suppression and Facilities Monitoring. The audit helps to verify whether your mission critical infrastructure is aligned to your business requirements.



Site Location



Architectural



Electrical



Mechanical



Telecommunication



Physical Security



Safety



Fire Detection/  
Suppression



Facilities  
Monitoring

### Why TIA-942?

TIA-942 is by far the most popular standard when it comes to data center design (more than 9,000 copies purchased worldwide). Independent research has shown that 78% of data center operators/owners use the TIA-942 standard as the basis for their data center design.

Uptime Institute 13%

**TIA-942**

78%

BICSI-002 3%

SS507 1%

Others 5%

# WHY TIA-942?

Designers, operators and owners of data centers stated these 6 key reasons for choosing TIA-942:

01

## TIA-942 carries an official certification

TIA-942 is the only data center standard with an Accredited Certification Scheme providing a benchmark for audit organizations and auditors that meet the quality to deliver TIA-942 audit and certification services.

02

## TIA-942 is a true standard issued by an SDO - Standards Development Organization

The TIA standard development process is governed by ANSI which ensures that the process of creating and maintaining the standard is done via a rigid but open process. In the market there are some so called standards/guidelines which are written by commercial companies which often do not have an accreditation and/or follow an accredited standards development process.

03

## TIA-942 is an open standard

The specifications/requirements and audit criteria of the standard are public. The advantage is that once you are certified, your customers, both internal and external, will have more confidence as they know what you have done, at a minimum, to protect their business-critical IT environment.

04

## TIA-942 is a complete standard

It addresses MORE than just power and cooling. The standard addresses ALL aspects of the data center such as the data center location, architectural structure, power, cooling, telecommunication, physical security, safety, fire suppression and monitoring.

05

## TIA-942 is the most cost-effective and extensive conformity certification

Compared to other data center audit/certifications which are much more costly and have a limited scope, TIA-942 audit and certification provides you with far more value at a fair market price.

06

## Global listing

Once you are certified you will be listed on the [www.tiaonline.org](http://www.tiaonline.org) website for complete transparency to your customers, and on the EPI Certification global map [www.epi-certification.com/sites/map](http://www.epi-certification.com/sites/map)



# WHY EPI?

1

## **EPI Leadership and Awards**

EPI has been awarded the Gold Leader status by TIA and also received 3 TIA Star Awards for exceptional leadership, contribution and engagement to the advancement of TIA and the industry objectives.



2

## **EPI is an ISO-17021 Accredited Certification Body and Licensed TIA-942 Certification Body**

EPI has met both the international standard required for a certification body, and the requirement of TIA for TIA-942 certification body. These certifications set EPI apart from others. They validate EPI's status as a company that is fully capable of delivering proper audit and certification services. EPI as your auditor enhances your company's credibility to your users/customers.

3

## **EPI is a member of TIA and TIA-942 (TR42) Technical Committee**

This ensures we are relevant and stay updated with the latest information. On top of that, EPI is also part of the Technical Committee for the TIA-942 standard (TR42) which means we have first-hand information about the standard itself and have the ability to discuss with the committee any 'grey areas' which might arise when auditing a data center.

4

## **EPI Auditors are Certified**

EPI auditors are certified subject matter experts and qualified auditors. They hold at least 3 certifications, CTDC (Certified TIA-942 Design Consultant), CTIA (Certified TIA-942 Internal Auditor), and ISO Lead Auditor.

5

## **EPI follows the ISO Audit Process**

The EPI certification audit is based on the accredited ISO 19011 methodology.

6

## **EPI has certified the largest number of TIA-942 data centers in the world**

No other auditor or organization comes even close to having the experience and number of audits we have conducted on TIA-942.

7

## **EPI has true global presence**

EPI has fully manned offices in 11 locations covering each continent with direct sales and technical support. This will ensure that you always have the commercial and technical assistance whenever needed and often in the local language making communication easier.

8

## **EPI proprietary audit tool**

EPI uses its own custom audit tool to reduce duplication of work, increase data accuracy, eliminate ambiguity in audit reports, verify compliance throughout the audit process, and generate a verifiable TIA-942 audit report for unmatched customer confidence.

# THE BENEFITS OF EPI TIA-942 CERTIFICATION



An EPI TIA-942 Certification is a high-quality, independent validation of the data center facilities.

EPI is a trusted name in the industry, with an established reputation for over 30 years as experts in the data center field. EPI is known for continuously delivering high-quality services and operates with integrity.

Certification based on TIA-942 provides a conformity audit on the full scope of the data center facilities which leads to minimization of risk.

An EPI TIA-942 Certification offers the following benefits:

1



Builds trusts and confidence with your customers (internal and/or external)

5



Minimizes costs of operations by reducing unexpected expenses due to design flaws

2



Provides a clear advantage in competitive business bids

6



Provides the most cost-effective audit/certification with the highest level of coverage

3



Protects your data center from risks in the design/build

7



Provides public recognition and validation of your certification on the [www.tiaonline.org](http://www.tiaonline.org) and [www.epi-certification.com](http://www.epi-certification.com) websites

4



Minimizes downtime by identifying design/build flaws and rectifying them upfront



# TIA-942 CONFORMITY CERTIFICATIONS



There are 3 types of certifications:



## Design Certification (DCDV)

TIA-942 Design Certification (DCDV) indicates that the design documents of the data center under scope have been reviewed for conformity to the design criteria of the TIA-942 standard for the respective Rating level. The TIA-942 Design Certification is valid for one year, extendable if a site is not operational yet.



## Site/Facilities Certification (DCCC)

The TIA-942 Site/Facilities Certification (DCCC) indicates that the data center facility under scope has been physically inspected for conformity to the design criteria of the TIA-942 standard for the respective Rating level. This physical inspection covers both an assessment of all relevant design documents as well as a physical on-site inspection for each area under the scope of the TIA-942 standard.

The TIA-942 Site/Facilities Certification is valid for 3 years following the ISO certification maintenance structure. By the end of year-1 and year-2, the data center should undergo a surveillance audit. Depending on potential site changes since the official certification audit, the surveillance audit could be based on self-declaration, remote validation or in very rare cases an on-site inspection. By the end of year-3, the data center has to undergo a recertification audit in order to maintain its certification.



## TIA-942 Ready Certification

TIA-942 Ready Certification indicates that a product (typically a modular data center such as pre-fabricated data center, Edge Data Center/Module or a Container-based data center product), has been designed in accordance to the requirements of the TIA-942 standard for the respective Rating level. The TIA-942 Ready Certification will review all aspects under scope to ensure the module meets the requirement of the TIA-942 for that particular scope. This certification will ensure that once the modular data center solution has been placed in the appropriate environment that it will meet the indicated Rating level.

The TIA-942 Ready Certification has a few distinct advantages for manufacturers of modular data center solutions and their customers;

1. Pre-validation of modular data center conformity to TIA-942 at the manufacturer level.
2. Reduction of certification time for modular data center customers due to pre-validation.
3. Discounted cost for full TIA-942 design (DCDV) and site/facility (DCCC) certification.



## THE COMPANY

EPI is a data center specialist company of European origin operating world-wide in over 70 countries through direct operations and a large partner network. EPI offers an extensive range of data center services on auditing, certification and training. EPI's focus is on mission-critical, high-availability environments. Established in 1987, EPI has developed an international reputation for delivering high quality technical expertise, with flexible and innovative services, techniques and methodologies.

All our services are aimed at helping our customers to:

- Increase **Availability** of their mission-critical infrastructure
- Improve **Efficiency, Effectiveness and Manageability**
- **Minimize risk** of business interruption

Our Clients share a common need to protect their valuable data, run their mission-critical infrastructure efficiently and to be protected on a 24 x 7 basis. By protecting the interests of our customers, EPI is committed to an intensive program of comprehensive services development backed by engineering and support excellence.

Quality Systems and Procedures have always been at the heart of every stage of our service delivery to ensure consistent and high quality services. We are known for our thoroughness, flexibility and responsiveness. We focus on providing services that fit each organization and each project with a drive to deliver quality on time, every time.

*Let us put our expertise to work for you!*

## DATA CENTER SERVICES

### Audit & Certification

- Data Center Standards
  - ANSI/TIA-942
  - EN50600
  - DCOS®
- International Standards
  - ISO 9001            - ISO 22301
  - ISO 14001        - ISO 27001
  - ISO 14644        - ISO 37001
  - ISO/IE 20000-1   - ISO 45001
  - ISO 22237        - ISO 50001
- Singapore Standards
  - SS 506
  - SS 507
  - SS 564
- European Standards
  - EN 50600
  - ISO/IEC TS 22237

### Professional Training & Certifications

- Data Center
  - DCFC®, CDCP®, CDCS®, CDCE®, CNCDP®
  - CDFOS®, CDFOM®, CDRP®, CDMS®,
  - CTDC®, CTIA®, CTLA®
- IT
  - CITO®, CITM®, CITD®

### Non-Certification Training

- Digital Transformation

### Career Planning Tools

- DCPT - Data Center Career Planning Tool
- ITCPT - IT Career Planning Tool

### Frameworks

- IT&DCF® - IT & Data Center Framework
- DCCF® - Data Center Competence Framework
- DCTF® - Data Center Training Framework
- ITTF - IT Training Framework

### Standard

- DCOS® - Data Center Operations Standard



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Authorized Reseller/Partner:

