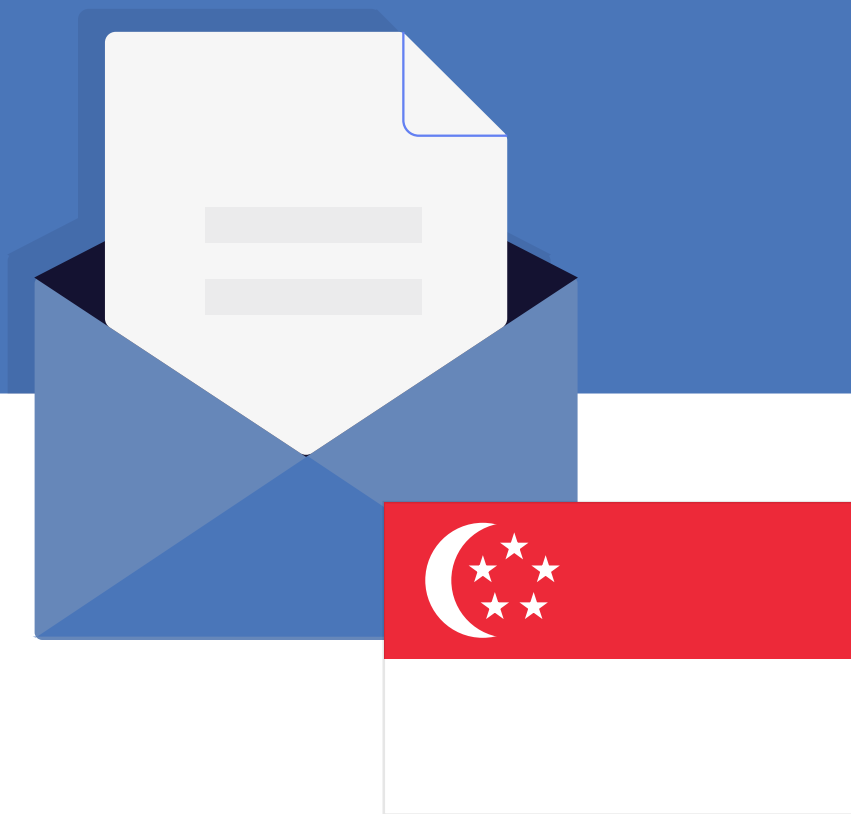


Singapore DMARC & MTA-STS Adoption Report 2024



POWER DMARC

Singapore DMARC & MTA-STS Adoption Report 2024



- ▶ In 2024, Singapore continues its efforts to enhance email security across sectors with the adoption of DMARC and MTA-STS protocols. This report provides a comprehensive analysis of the current state of DMARC, SPF, MTA-STS, and DNSSEC for 421 analyzed Singapore organizational domain names. The report provides deep insights into key statistics about email security adoption in the country and its resilience towards phishing and spoofing attacks.

Assessing the Threat Landscape

In our Singapore DMARC and Email Authentication Adoption Report for 2024, we will address the following major concerns:

- ▶ What's the state of SPF and DMARC adoption?
- ▶ How prevalent is MTA-STS adoption?
- ▶ What's the DNSSEC enablement rate?
- ▶ How can Singapore improve email security to stop impersonation attacks?
- ▶ Which sectors are most vulnerable to phishing?
- ▶ How can organizations combat email-based threats?

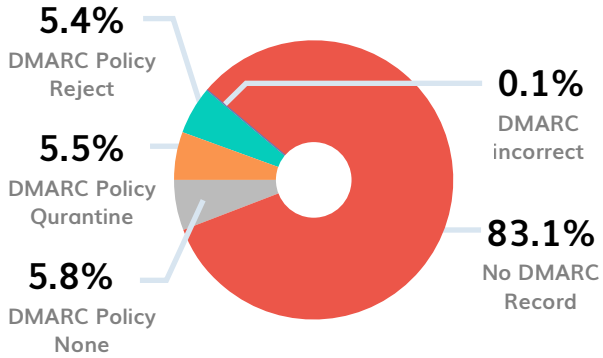
Sectors Analyzed

Total domains analyzed: 421

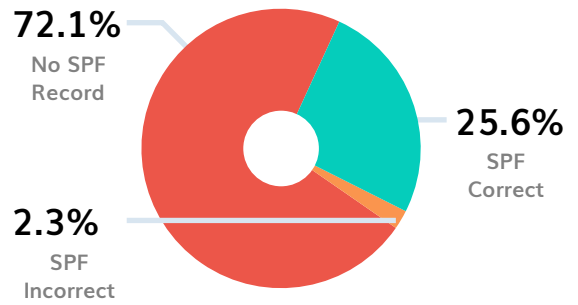
- ▶ Healthcare
- ▶ Media
- ▶ Banking
- ▶ Telecommunications
- ▶ Government
- ▶ Transport
- ▶ Education
- ▶ Miscellaneous-Business

What Do the Numbers Say?

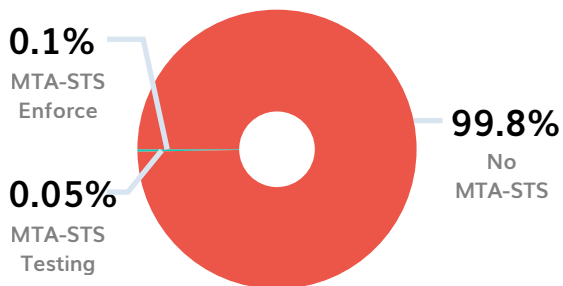
Singapore DMARC Adoption Analysis



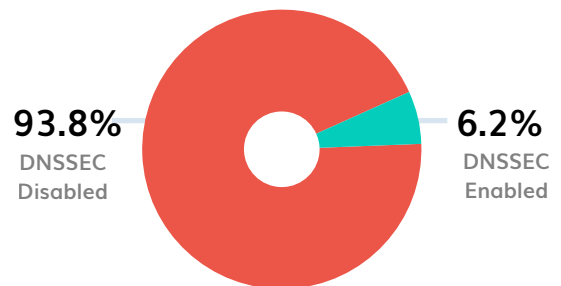
Singapore SPF Adoption Analysis



Singapore MTA-STS Adoption Analysis



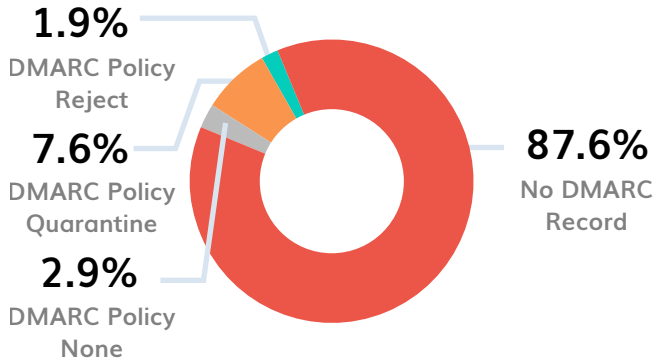
Singapore DNSSEC Adoption Analysis



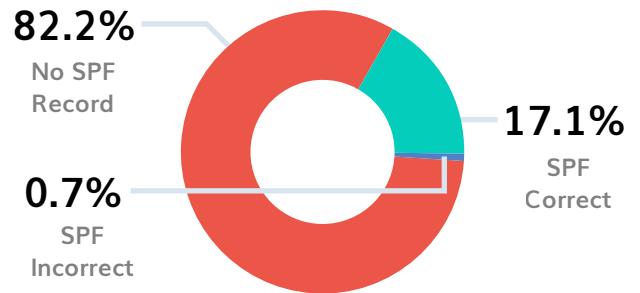
Sector-wise Analysis of Domains in Malaysia

Healthcare Sector

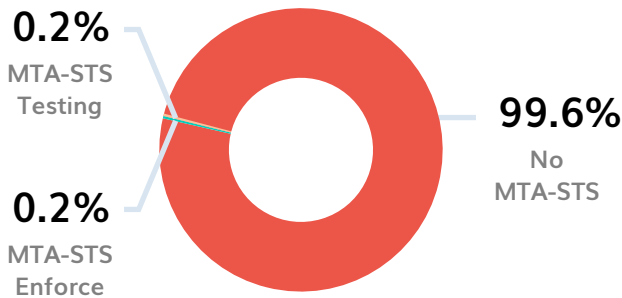
DMARC Adoption Analysis: Singapore Healthcare Sector



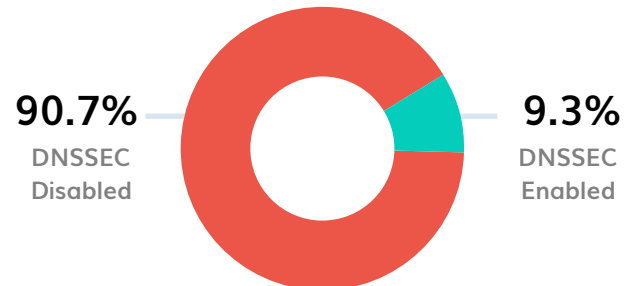
SPF Adoption Analysis: Singapore Healthcare Sector



MTA-STS Adoption Analysis: Singapore Healthcare Sector

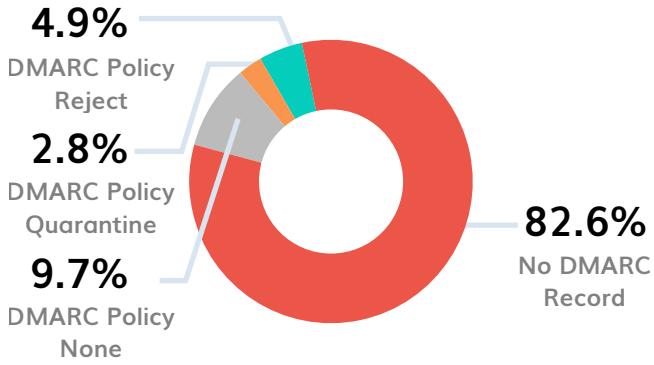


DNSSEC Adoption Analysis: Singapore Healthcare Sector

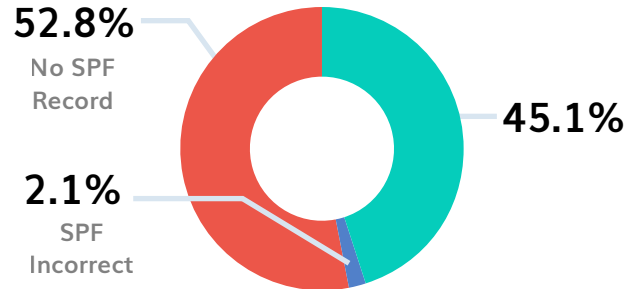


Media Sector

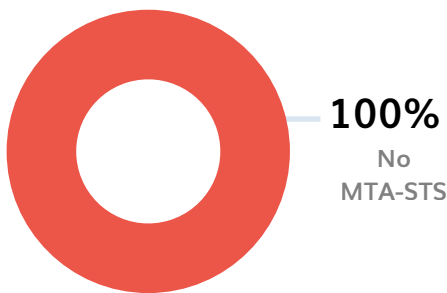
DMARC Adoption Analysis: Singapore Media Sector



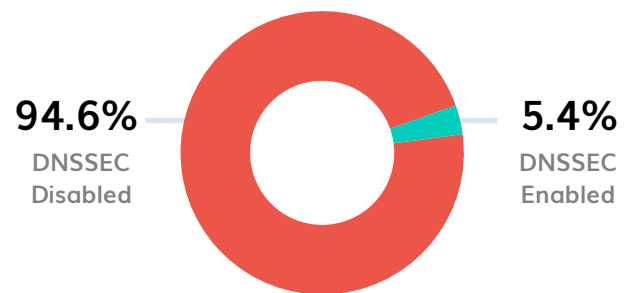
SPF Adoption Analysis: Singapore Media Sector



MTA-STS Adoption Analysis: Singapore Media Sector

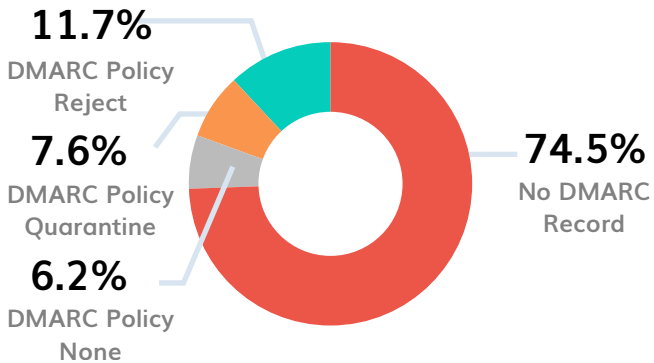


DNSSEC Adoption Analysis: Singapore Media Sector

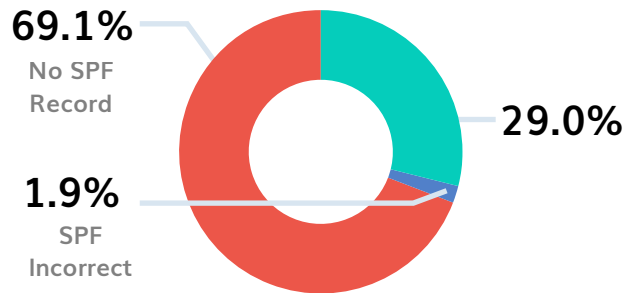


Telecom Sector

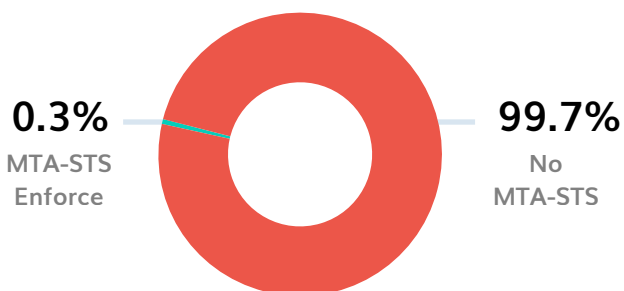
DMARC Adoption Analysis: Singapore Telecom Sector



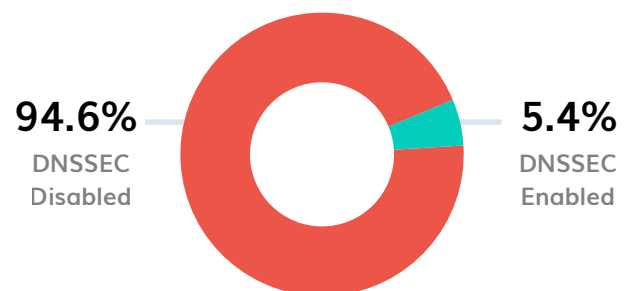
SPF Adoption Analysis: Singapore Telecom Sector



MTA-STS Adoption Analysis: Singapore Telecom Sector

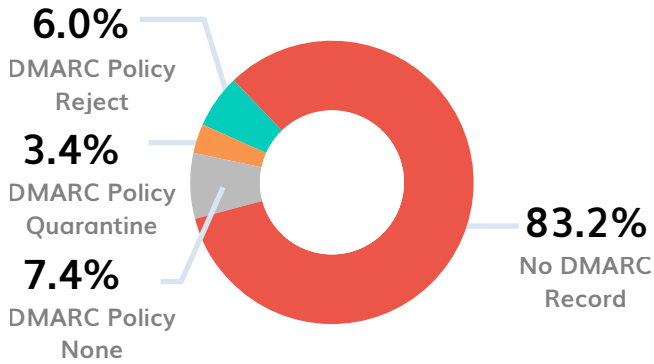


DNSSEC Adoption Analysis: Singapore Telecom Sector

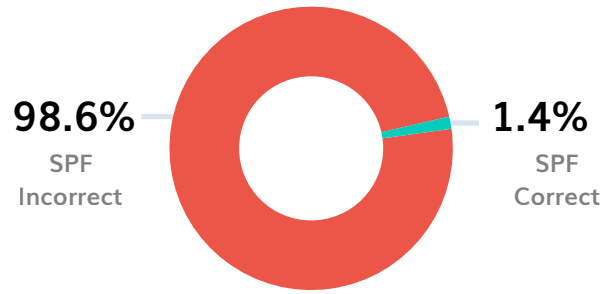


Government Sector

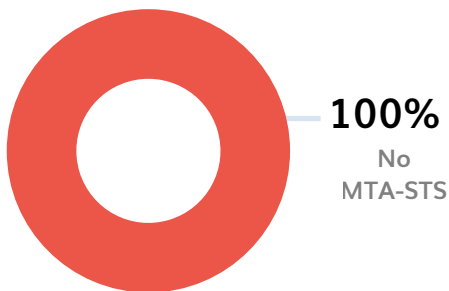
DMARC Adoption Analysis: Singapore Government Sector



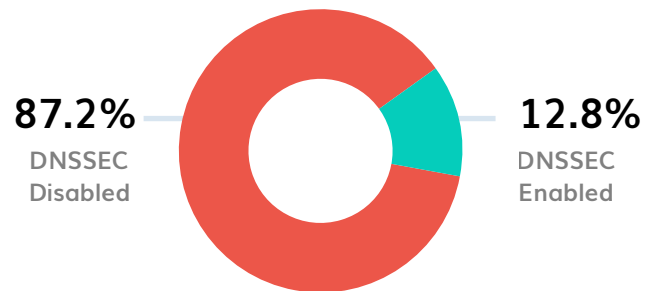
SPF Adoption Analysis: Singapore Government Sector



MTA-STS Adoption Analysis: Singapore Government Sector

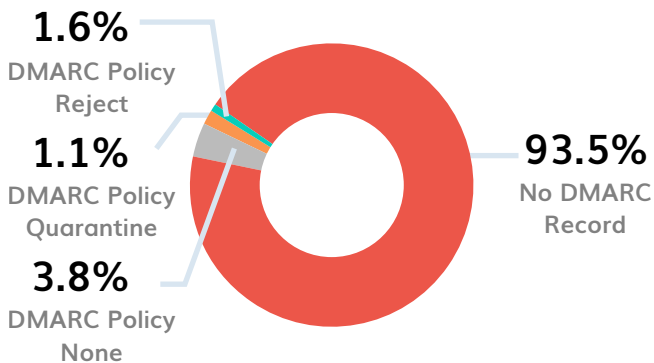


DNSSEC Adoption Analysis: Singapore Government Sector



Transport Sector

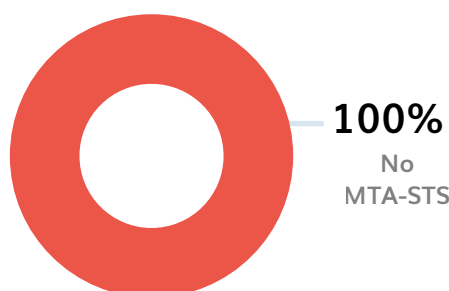
DMARC Adoption Analysis: Singapore Transport Sector



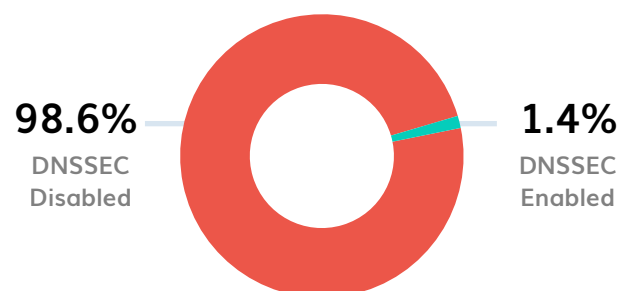
SPF Adoption Analysis: Singapore Transport Sector



MTA-STS Adoption Analysis: Singapore Transport Sector

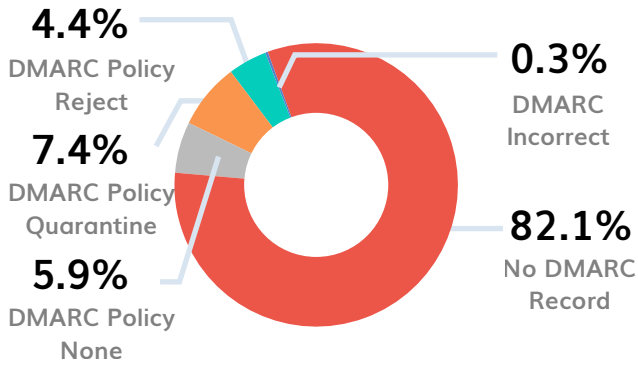


DNSSEC Adoption Analysis: Singapore Transport Sector

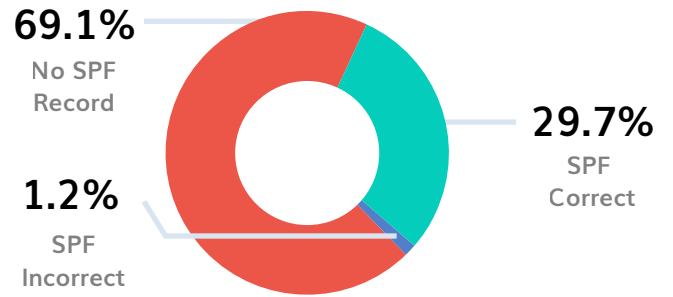


Education Sector

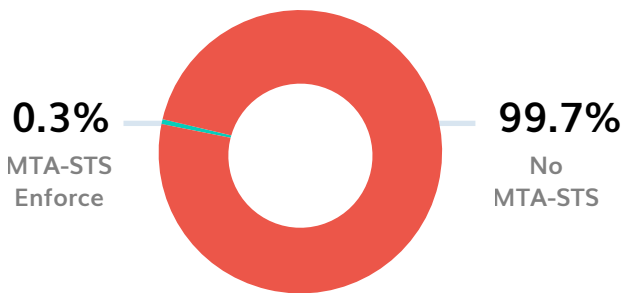
DMARC Adoption Analysis: Singapore Education Sector



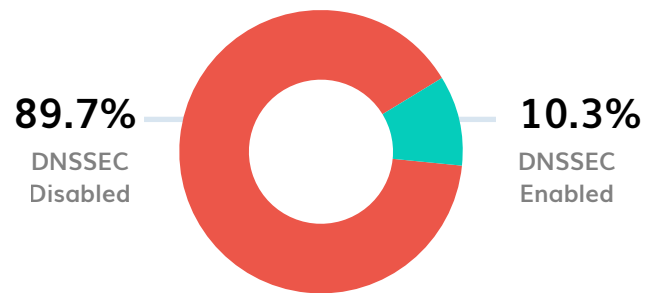
SPF Adoption Analysis: Singapore Education Sector



MTA-STS Adoption Analysis: Singapore Education Sector

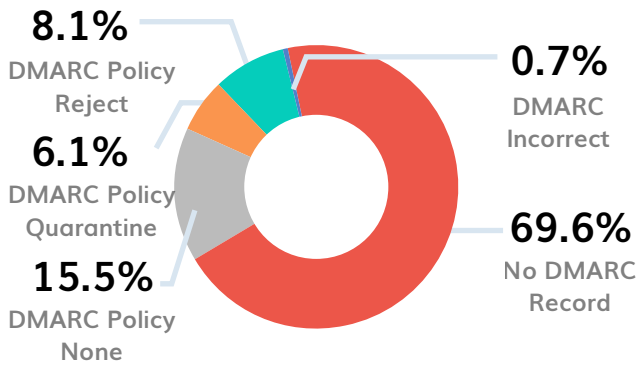


DNSSEC Adoption Analysis: Singapore Education Sector

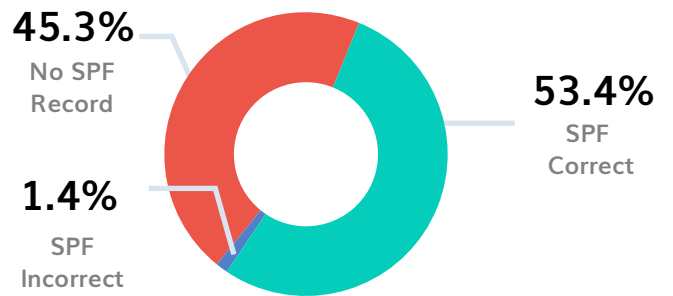


Miscellaneous Businesses

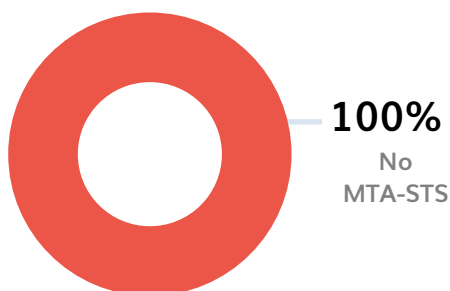
DMARC Adoption Analysis: Singapore Miscellaneous Businesses Sector



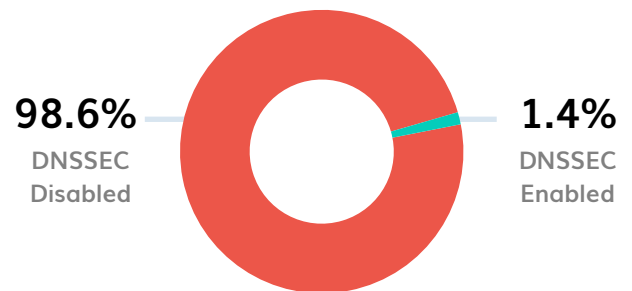
SPF Adoption Analysis: Singapore Miscellaneous Businesses Sector



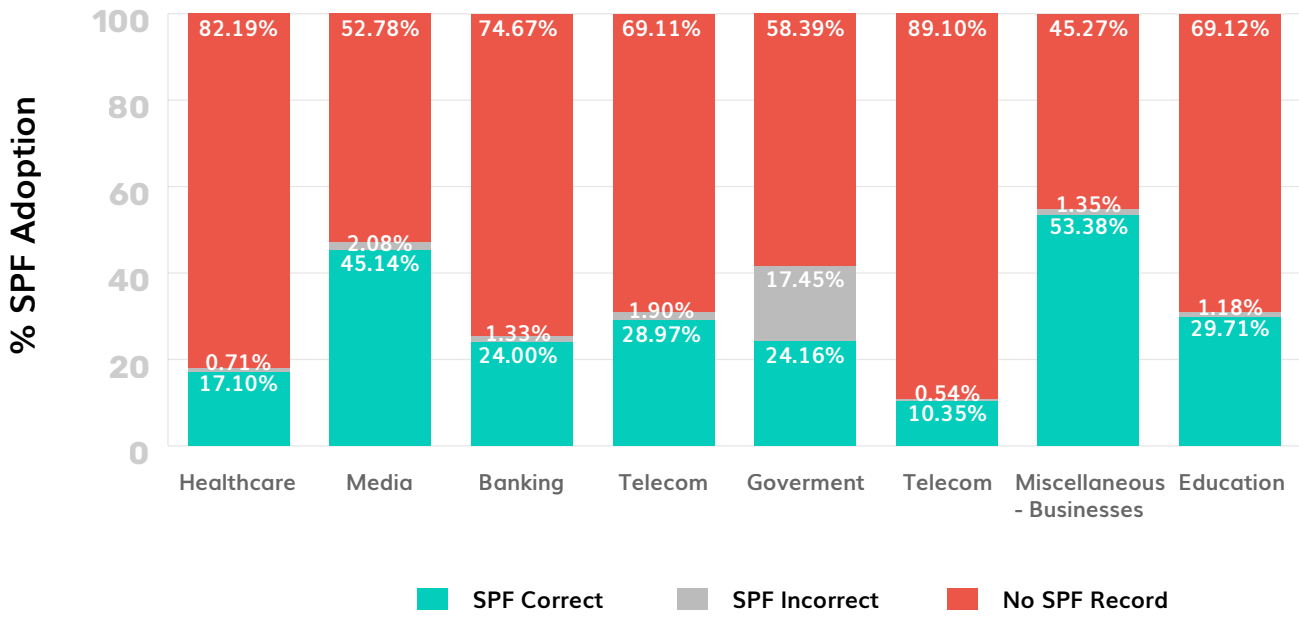
MTA-STS Adoption Analysis: Singapore Miscellaneous Businesses Sector



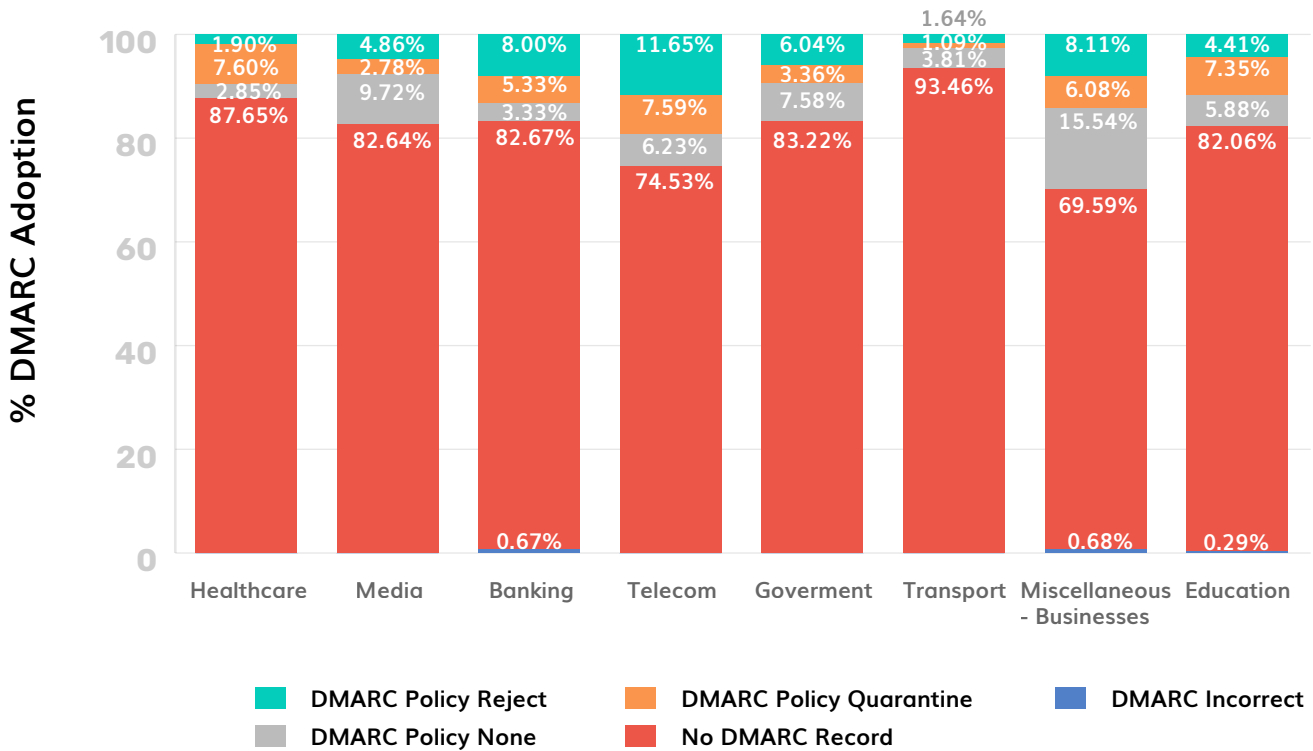
DNSSEC Adoption Analysis: Singapore Miscellaneous Businesses Sector



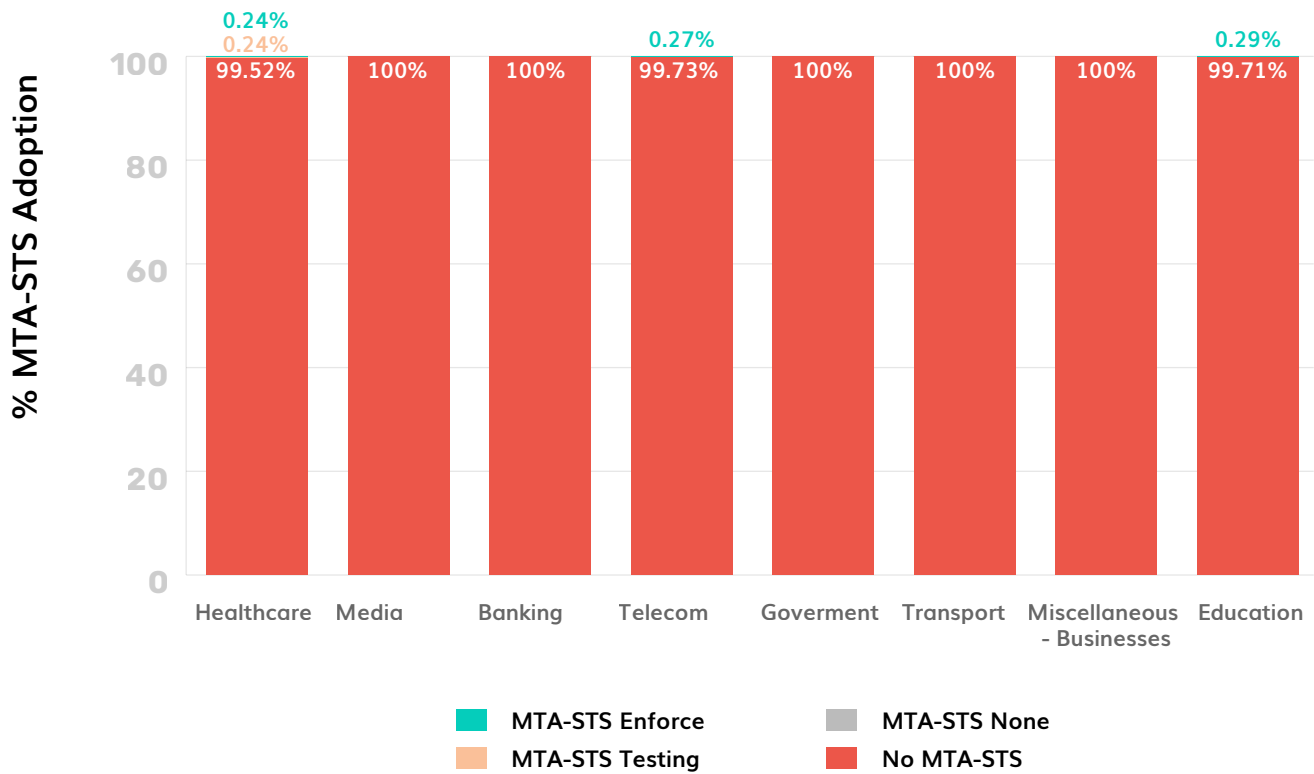
Comparative Analysis of SPF Adoption among Different Sectors in Singapore



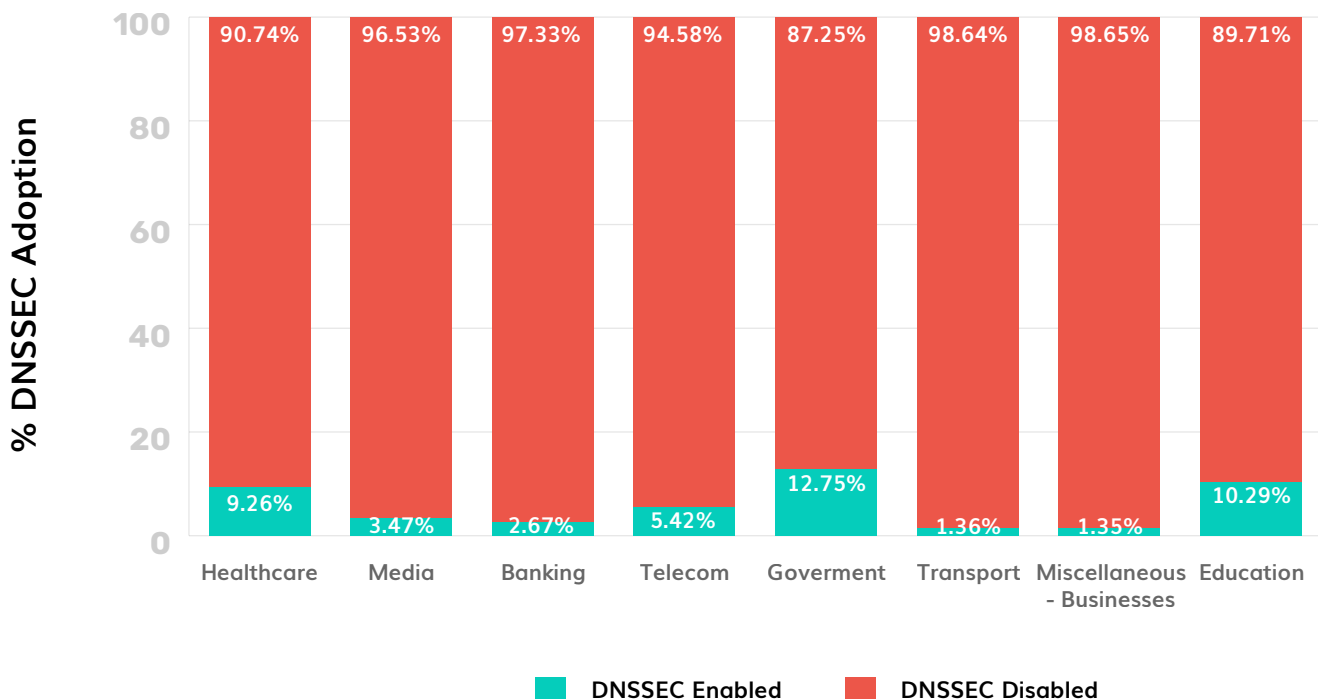
Comparative Analysis of DMARC Adoption among Different Sectors in Singapore



Comparative Analysis of MTA-STS Adoption among Different Sectors in Singapore



Comparative Analysis of DNSSEC Adoption among Different Sectors in Singapore



Singapore DMARC & MTA-STS Adoption Rates: Key Statistics

- ▶ **More than 80%** of organizations in the Singapore Healthcare, Media, Government, and Education sector **do not have DMARC implemented.**
- ▶ **More than 93%** of Singapore Transport Businesses **are not protected against spoofing attacks.**
- ▶ **More than 80%** of Singapore Healthcare Institutions did not have SPF implemented.
- ▶ **Less than 10%** of business domains in Singapore had enforced DMARC policies at p=reject
- ▶ **Less than 1%** of business domains in Singapore have MTA-STS enabled
- ▶ **None** of the analyzed Singapore domains have DNSSEC enabled

Critical Errors Organizations in Singapore are Making

From the analysis, we uncovered several critical errors organizations in Singapore were making when it came to implementing email authentication protocols and protecting their domain names. Let's discuss them:

- 1 Low SPF and DMARC configuration rates.
- 2 SPF, DMARC and MTA-STS configuration errors
- 3 Usage of permissive DMARC policies like p=none
- 4 Low MTA-STS and TLS-RPT configuration rates
- 5 DNSSEC disabled for domains
- 6 SPF DNS lookups exceeding the limit of 10
- 7 Multiple DMARC/SPF records configured for the same domain

How Can Organizations in Singapore Improve Email Security & Deliverability?

▶ Given below are a few key recommendations for improving email security and deliverability among organizations and government entities in Singapore:

- 1 Stay within SPF lookup limits and avoid SPF void errors.
- 2 Use automated tools for error-free SPF, DMARC, and MTA-STS record generator tools to avoid syntax errors.
- 3 Publish one SPF and one DMARC record per domain.
- 4 Comply with Google and Yahoo's email authentication sender requirements.
- 5 Gradually transition from p=none to p=reject DMARC policy while monitoring reports.
- 6 Enable MTA-STS and TLS-RPT for protection against MITM attacks.
- 7 Activate DNSSEC for secure DNS queries.
- 8 Use BIMI to send authenticated, branded emails to your recipients.



How Can PowerDMARC Help?



PowerDMARC is a comprehensive email authentication solution for businesses of all sizes, offering features like managed email authentication services for DMARC, SPF, DKIM, MTA-STS, TLS-RPT, and BIMI. Our platform offers visibility through human-readable DMARC reports and advanced domain security analysis.

Additionally, we provide DMARC MSP partnership programs with full white-labeling, video training, and rebranded marketing materials to help secure client domains and drive profits.

Let's join hands to increase the rate of DMARC & MTA-STS adoption and strengthen the email security infrastructure in businesses across Singapore and the Middle East. Contact us at support@powerdmarc.com to find out how we can help protect your domain and business today!