

# Oracle® Tuxedo Mainframe Adapter

## Release Notes



Release 22c



Oracle Tuxedo Mainframe Adapter Release Notes, Release 22c

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# 1

## What's New and Improved Oracle Tuxedo Mainframe Adapter SNA Release 22c

Oracle Tuxedo Mainframe Adapter Release 22c (22.1.0.0.0) includes the following new major features and enhancements:

- [Security Enforcement](#)

### 1.1 Security Enforcement

This release introduces the following updates of security capabilities to ensure secure Tuxedo Mainframe Adapter (TMA) deployment by default.

- Enforcing and hardening security by making TLS 1.2 the default protocol for communications between SNA gateway and CRM.

#### Compatibility

The new changes require you to take action in terms of configuration and security settings. The following backward compatibility option is available to you, who wish to maintain the old behavior present in TMA SNA 12.2.2.

- `TM_ALLOW_NOTLS` is set: No SSL connection is used. LLE (GPE) is allowed to be enabled and the behavior is the same as in TMA SNA 12.2.2.

By default TLS 1.2 is used. For compatibility with the older versions of Tuxedo, you can include TLS 1.0 or 1.1 versions through the environment variable `TM_TLS_FORCE_VER`.

Following is a list of supported cipher suites by default:

- `TLS_RSA_WITH_AES_256_CBC_SHA256`
- `TLS_RSA_WITH_AES_256_GCM_SHA384`
- `TLS_RSA_WITH_AES_128_CBC_SHA256`
- `TLS_RSA_WITH_AES_128_GCM_SHA256`
- `TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384`
- `TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256`
- `TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256`

If you want to use other cipher suites for use cases like interoperation between older versions of Tuxedo, then you can use the `TM_CIPHERSUITES` environment variable.

RSA requires a minimum key length of 2048. During the loading of the key/certificate, Tuxedo detects the key length and fails if it is less than 2048 characters. If you want to use a shorter key length, then you can use the `TM_MIN_PUB_KEY_LENGTH` environment variable.

# 2

## What's New and Improved Oracle Tuxedo Mainframe Adapter TCP Release 22c

Oracle Tuxedo Mainframe Adapter Release 22c (22.1.0.0.0) includes the following new major features and enhancements:

- [Security Enforcement/ Hardening](#)

### 2.1 Security Enforcement/ Hardening

In this release, TLS 1.2 support for network connection between TCP Gateway on open system and CICS/IMS on Mainframe are added. Network connections between TCP Gateways and TMA TCP IMSs support SSL/TLS.

The following section describes the TLS support functionality:

From	To	Supported Protocol
TCP Gateway	TCP CICS	no-TLS, two-way TLS
TCP Gateway	TCP IMS	no-TLS, one-way TLS
TCP CICS	TCP Gateway	no-TLS, two-way TLS
TCP IMS	TCP Gateway	no-TLS, one-way TLS

By default, supported cipher suites include:

- TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA256
- TLS\_RSA\_WITH\_AES\_256\_GCM\_SHA384
- TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA256
- TLS\_RSA\_WITH\_AES\_128\_GCM\_SHA256
- TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA384
- TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_GCM\_SHA256
- TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256

# 3

## Supported Platforms

Oracle Tuxedo Mainframe Adapter software runs on the platforms listed in [Oracle Tuxedo 22c Release Platform Data Sheets](#). Oracle has certified these platforms for development and production use with the Oracle Tuxedo Mainframe Adapter Release 22c (22.1.0.0.0) product. Oracle can provide customer support only for these platforms.