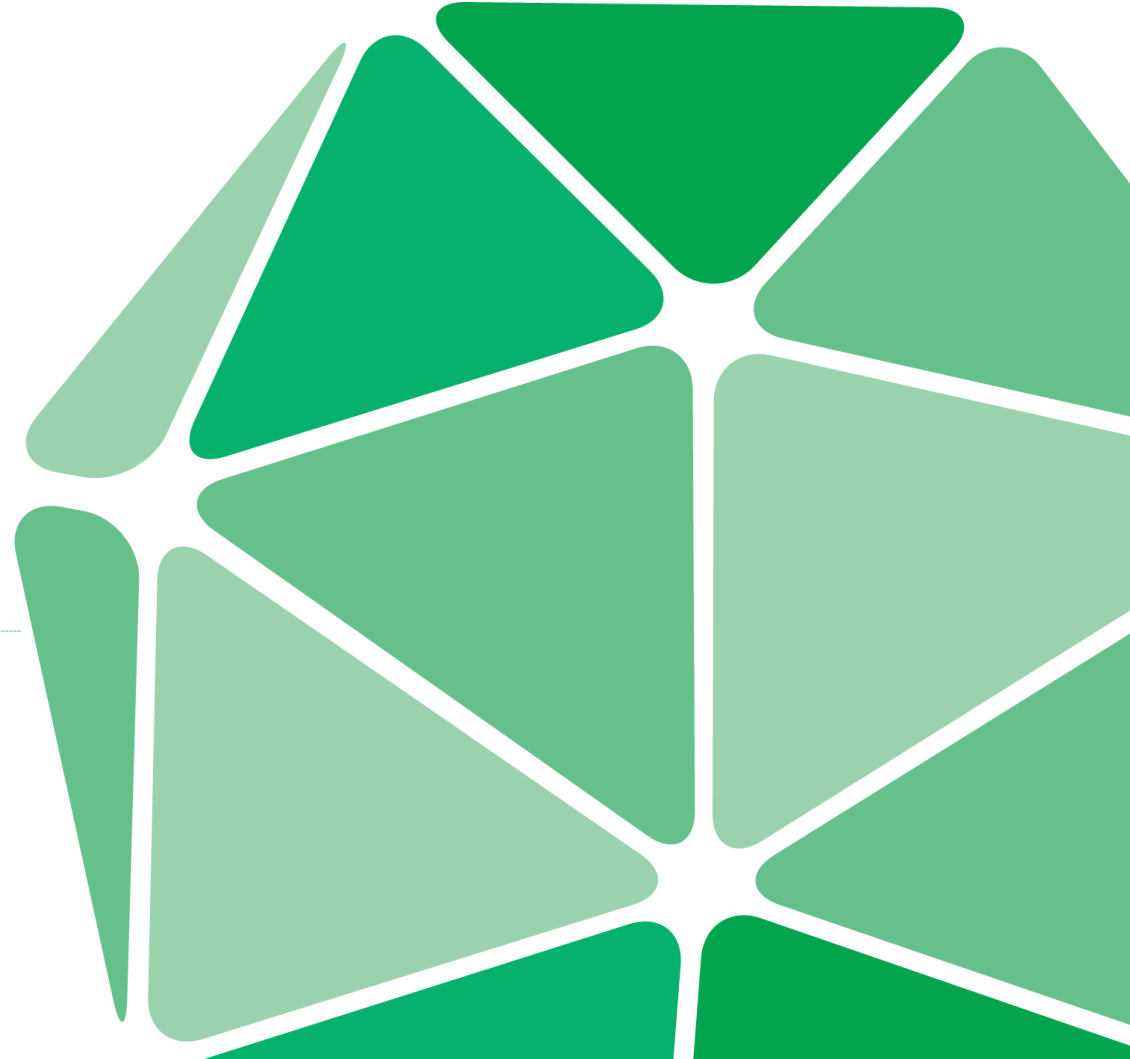




PRECISION
GROUP

Developer Program On Digital signature

27 Feb 2024



Precision Group | Overview



LEVERAGE
TECHNOLOGY
to enable outcomes
that matter

Biometrics | Cloud | Managed Services
Internet of Things | Systems Integration

27 +Years
in business

Team of **2500+**
professionals

Focus on
R&D and IP
creation

Pan India
presence
Offices in major
metros
250+ support locations

Precision Group | Offerings Spectrum



Biometrics



InnalT^{Key} WIAM, CIAM, Password-less Authentication Solutions

Hard Token – Biometric + PKI, Touch Sensor + PKI

Soft Token – Native Biometric / OTP / QR Authentication + PKI

InnalT^{Key} Password Manager for Consumer Segment

InnalT Framework Solutions for Enterprises:

2FA | eSSO, BioNIX, BioAD, EVS, Vault, TAS

Solutions for Aadhaar Ecosystem: STQC Certified FP scanners, Other Biometric devices

Systems Integration



Data Center Solutions

HPE Platinum Partner

Nutanix Reseller Champion

Networking Solutions

- Aruba, Arista & Cisco

Security Solutions

- Fortinet

RedHat

- Premium Partner

Managed Services & Cloud



Cloud Solutions – AWS & Azure

Data Center, Network, EUC & Security Mgt

Cloud Management, End-user support, Remote Infrastructure Management, Total Outsourcing Services

InsTIL – ITSM & Automation, Consulting & Integration

Internet of Things



PIVOT - Precision's Value Added IoT Framework

Solutions: Consumer IoT, Commercial IoT, Industrial IoT, Select Smart City projects

Act, Guidelines



- A perspective on the framework under which we operate.
- Information Technology (IT) Act (2000)
 - Ministry of Corporate Affairs (MCA)
- Office of the CCA
 - <https://cca.gov.in>
- Guidelines
 - <https://cca.gov.in/guidelines.html>
- Security Requirements for Crypto Devices (CCA-CRYPTO)
 - Basic set of requirements that a token must meet.
 - Currently based on primary requirement of a FIPS 140-2 certified module.
 - Additional requirements set out based on Indian government needs.
- A cert-in empanelled auditor verifies that the token meets the requirements stipulated in the guideline.

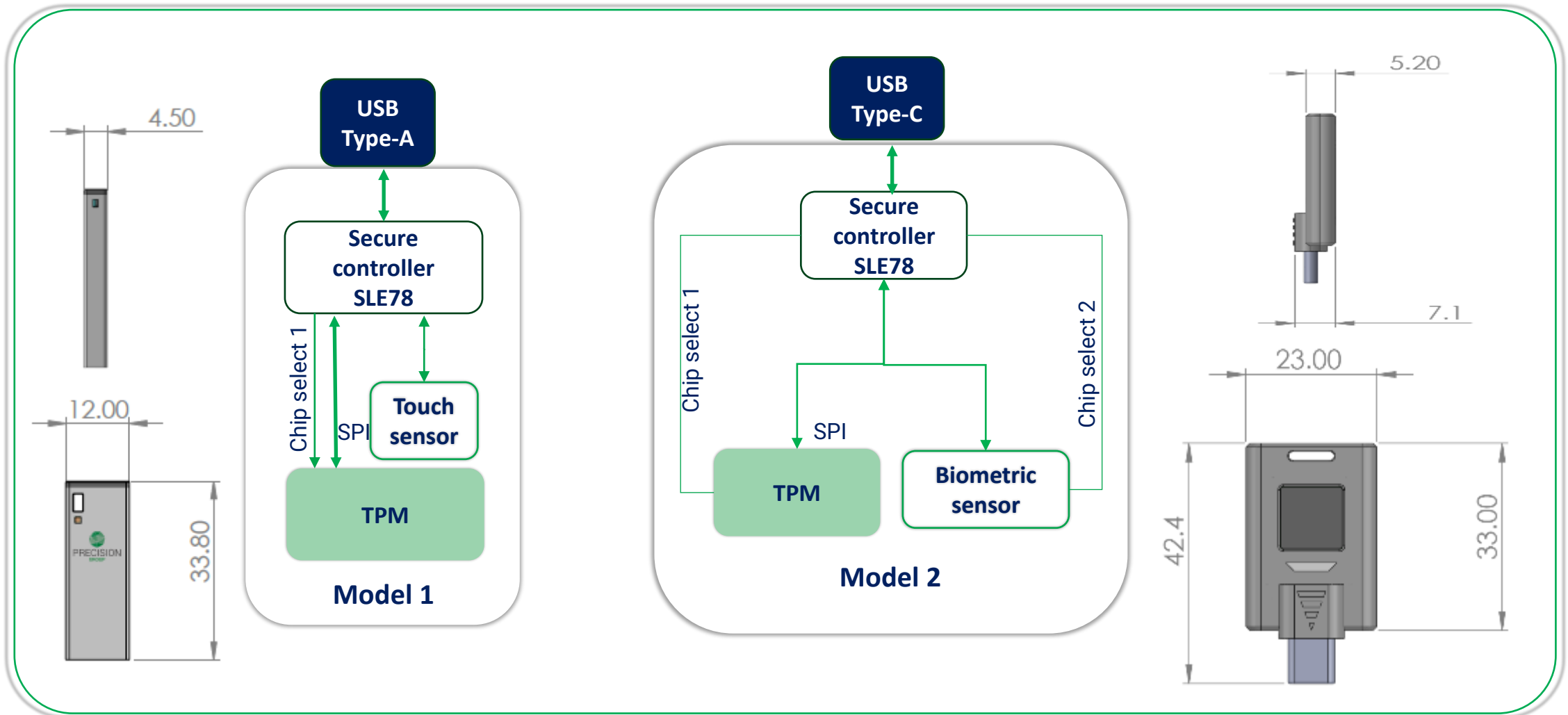
2	Crypto device Requirements.....
2.1	Functions Prior to User Authentication:
	The functions that can be performed before user authentication shall:
2.2	User Authentication:.....
	User Authentication mechanism shall meet the following requirements:
2.3	Physical Security:.....
2.4	Cryptographic Algorithms:
2.5	Key Entry:
2.6	Key Output:
2.7	Key Zeroization:
2.8	Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC):
2.9	Power Up Self-Tests:
2.10	Interface Specification:
2.11	Key Management Document:
2.12	Mitigation of Other Attacks:
2.13	Operating System Security:.....
2.14	Key Storage:
2.15	Key Zeroization:
2.16	Application Integrity:
2.17	Admin Password feature:.....

Precision : InnaIT^{Key}-DSC



- Salient features of Precision's DSC product are:
 - No components from border sharing countries.
 - FIPS 140-2 certified TPM2.0 module
 - Infineon TPM 2.0 module SLB 9672.
 - Secure controller, Infineon SLE78, with built in NVM and USB interface to host.
 - Common Evaluation Criteria EAL6+ certified
 - EMVCo certified
 - Combines Digital Signature Certification (DSC) & FIDO2 functionality.
- Two models
 - USB Type A connection with touch sensor
 - USB Type C Connector with Biometric sensor

DSC – Hardware



DSC - Creation



InnaIT Server
3.4.0 RC8
Precision Biometric - InnaIT

Create Certificate

Reference Number

65d097a487709c07f27c8a7b

CSR Data

Subject

CN JAGANATHAN CHENNAIPPAN

O PERSONAL

OU

L ERODE

S TAMIL NADU

C IN

✓ Authenticated successfully

Credential Name

Credential Name

Credential Password

Credential Password

Cancel

Show/Hide Steps

Manage Credential List

Reset

Create Certificate

Completed Step:

1	Create Key Pair	Not Started
2	Get Public Key	Not Started
3	Create Unsigned CSR	Not Started
4	Sign CSR In Device	Not Started
5	Get Certificate From CA	Not Started
6	Set Certificate In Device	Not Started
7	Send Response To CA	Not Started

DSC – Use case – Sign document



13.0469451,80.243273
 0,0

Home > Document Sign

Document Sign

File Type
SIGNPDF

File
+ Choose file
TNEB Bill.pdf

Device
Select device

Location
Chennai

Current Page
1

Sign PDF
Sign With Tpm
Reset

Document Details

Name

B22/23, 1:19 PM TANGEDCO Online Payment

TAMILNADU GENERATION AND DISTRIBUTION CORPORATION

NAME & ADDRESS OF THE CONSUMER	TARIFF	S/C No.	BILL DATE	TOTAL AMOUNT DUE	LAST DATE FOR PAYMENT
RAVEDIRANRAMAMURTHY 12 PRAKASAP ST HL Families	LAJA	012902356	08/07/2023	₹721	28/07/2023

BOOK NO	ACCOUNT NUMBER	BILL NUMBER	BILLING PERIOD		PREVIOUS MONTH AMOUNT DUE	PAID ON
			IN-MONTHLY/MONTHLY	FROM TO		
			2	08/05/2023 08/07/2023	₹1713	28/05/2023

SECTION ID	SECTION NAME	CONSUMER INDEX NO	CONTRACTED LOAD (KW)	POWER FACTOR	BILL TYPE
129	NLANGANBAKKAM		3	0.83	NORAL

METER NO	METER TYPE	PREVIOUS READING KWH / KVVAH	PRESENT READING KWH / KVVAH	MAX. DEMAND	EXCEEDED DEMAND	MP	METERED UNIT KWH / KVVAH	ASSESSED UNIT	ADJ. UNIT	TOTAL BILLABLE UNIT
581854	Smart Meter	4327.49/4638.59	4338/5010.49	2.43				316.31		316.31

I. Security Deposit Details

SD AVAILABLE (₹)	SD REQUIRED (₹)	+DUE / -REFUND (₹)	DUE DATE

II. Advance CC Details

DATE	AMOUNT PAID (₹)	AMOUNT ADJ (₹)	BALANCE (₹)

III. CC Arrear Details

MONTH & YEAR	DUE (₹)	BPSC (₹)	TOTAL DUE (₹)

CAUTION: Every bill payment must be done with in due date otherwise according to the Indian electricity Act, 2003 Section 56 (1), without further notice the electricity supply will be disconnected on or after the disconnection date shown in this bill.

Signature

FIXED CHARGES FOR CONTR.LOAD

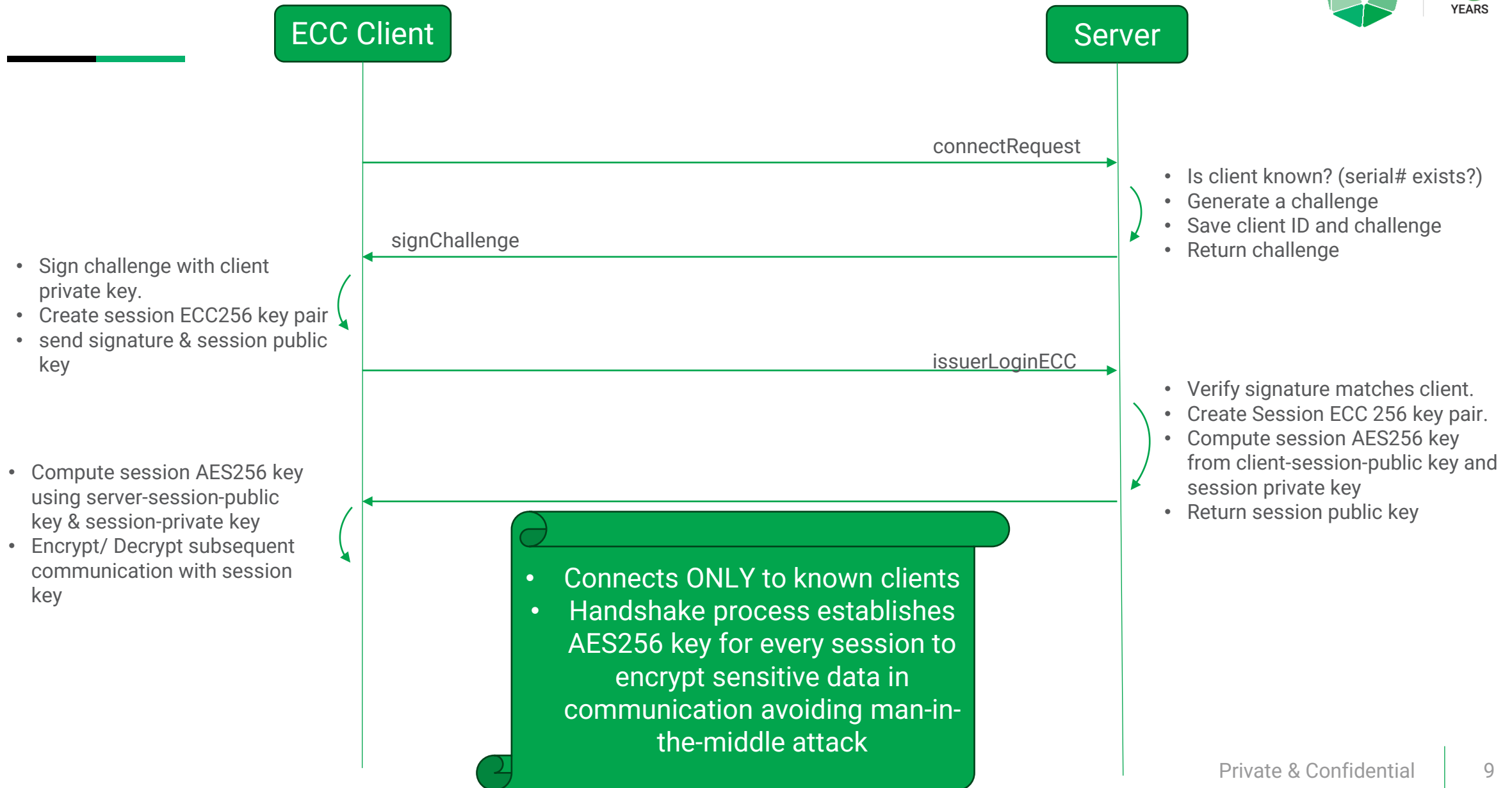
BILL PARTICULARS	AMOUNT (₹)
ENERGY CHARGES	1400.47
FIXED CHARGES FOR CONTR.LOAD	0
EXCESS DEMAND PENALTY	0
LPF COMPENSATION (+)	0
WELDING BURCHARGE	0
E TAX	0
E TAX ON GENSET UNIT	
CURRENT BILL AMOUNT	1400.47
PROVISIONAL AMOUNT ADJUSTMENT (+)	0
GOVERNMENT SUBSIDY AMOUNT (-)	816.07
HL FAMILIES SUBSIDY (-)	
ROUND OFF	72.4

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InnaIT Server
3.4.0 RC8

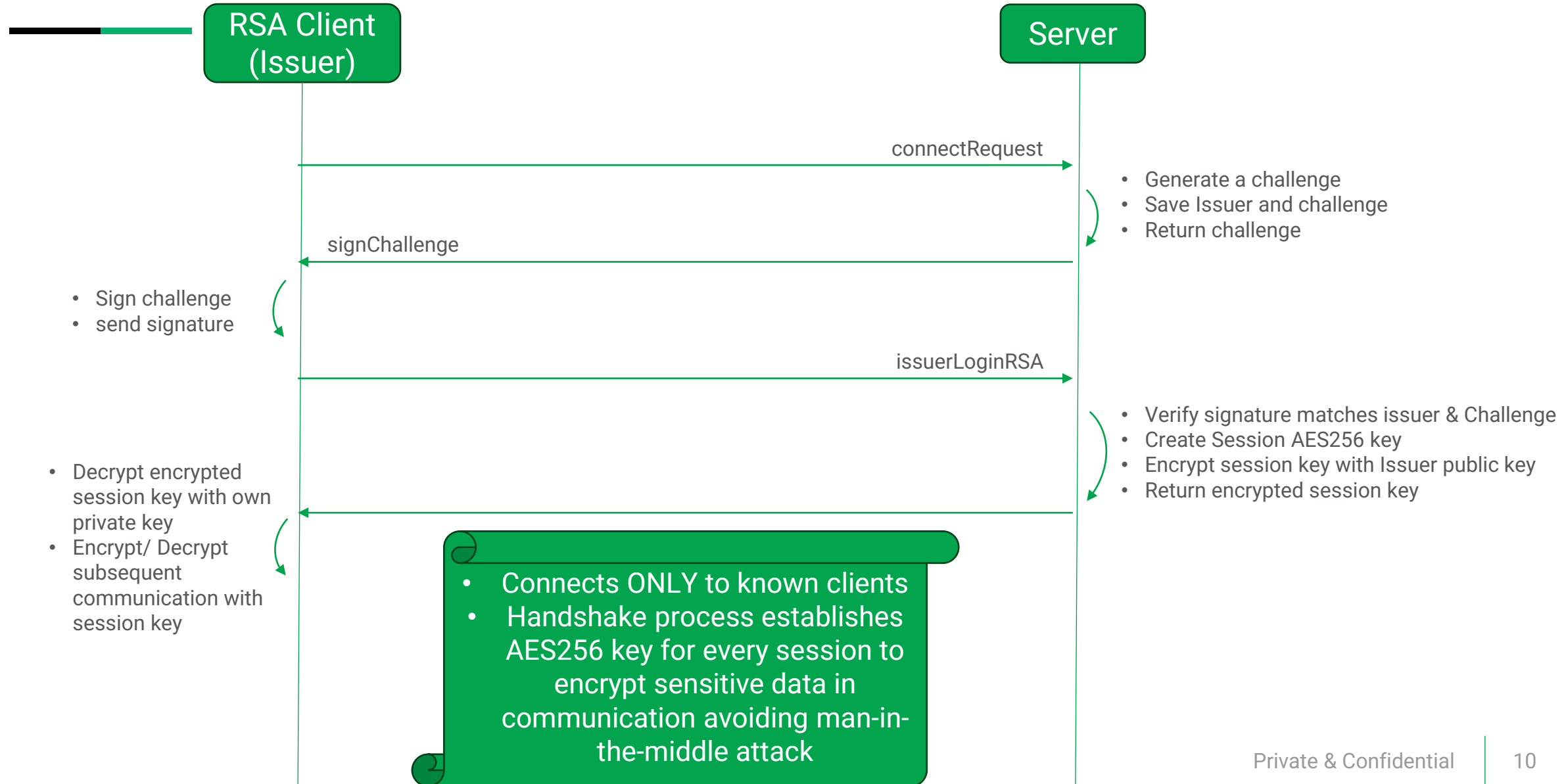
Private & Confidential

8

PKI with ECC – Known set of devices



PKI – With RSA – Known set of issuers





PRECISION
GROUP

Thank you

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