



Automated Construction Productivity Data Submission

Construction Transformation & Technology Department

23 Jan 2026





Outline

- **Current State of Construction Productivity Data Submission**
- **New Submission Process**
- **Next Steps**



Key Changes to Requirements for Construction Productivity Data (CPD)

CURRENT REQUIREMENTS

- Every builder **shall install and operate a biometric authentication system (BAS)** for the purposes of collecting the CPD and submitting CPD monthly via the Electronic Productivity Submission System (ePSS).
- Building works which are subject to this mandatory submission include those which:
 - Occupy a Gross Floor Area (GFA) of 5000 m² or more
 - Are new building projects, upgrading projects and A&A projects

GOING FORWARD

- Builders will be required to submit their CPD **through a BAS that is integrated, with the data exchange platform (i.e. SGBuildex)**, for new applicable projects with Permit to Commence Work (PTCW) applications made from **1 May 2026**.

ePSS

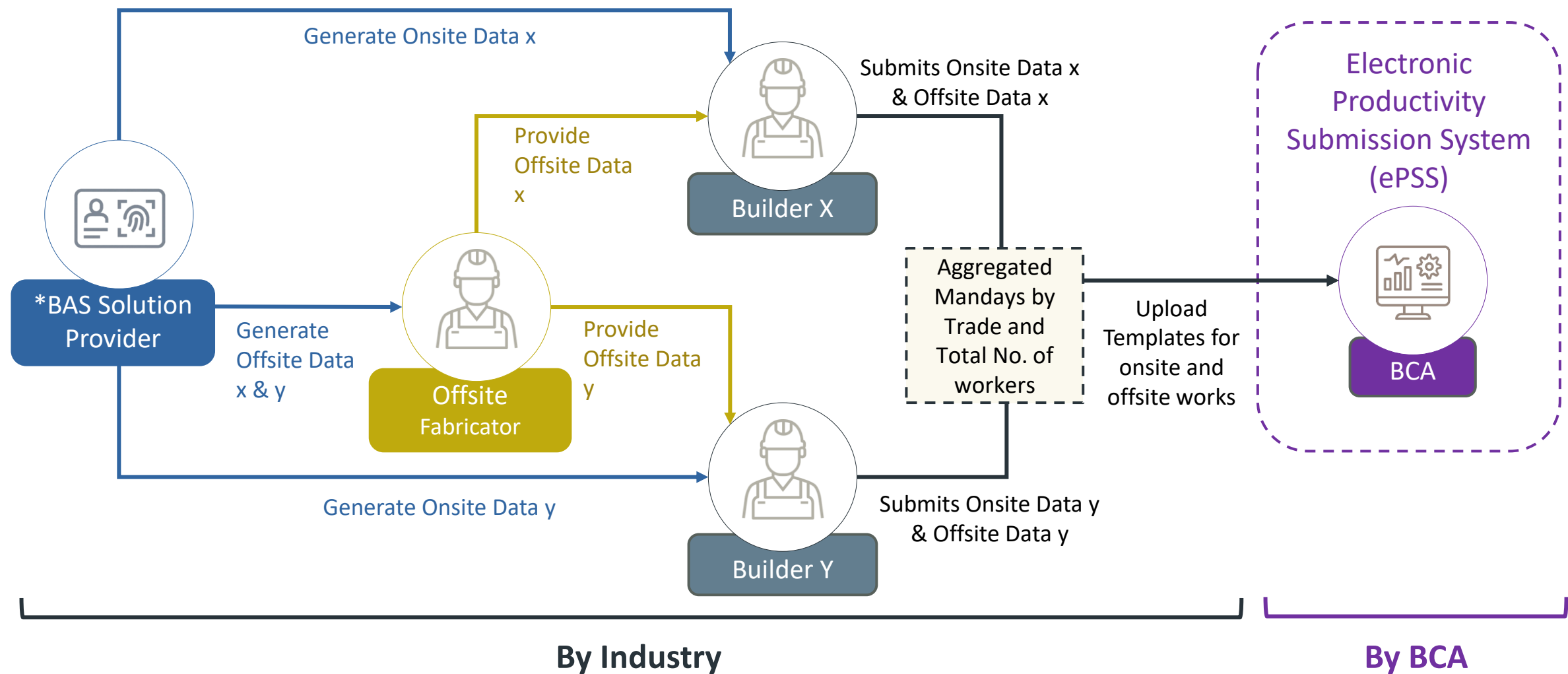
- Manual Upload
- Builders submit CPD
- 4 Excel Templates
- 150 Worker Trades

SGBuildex

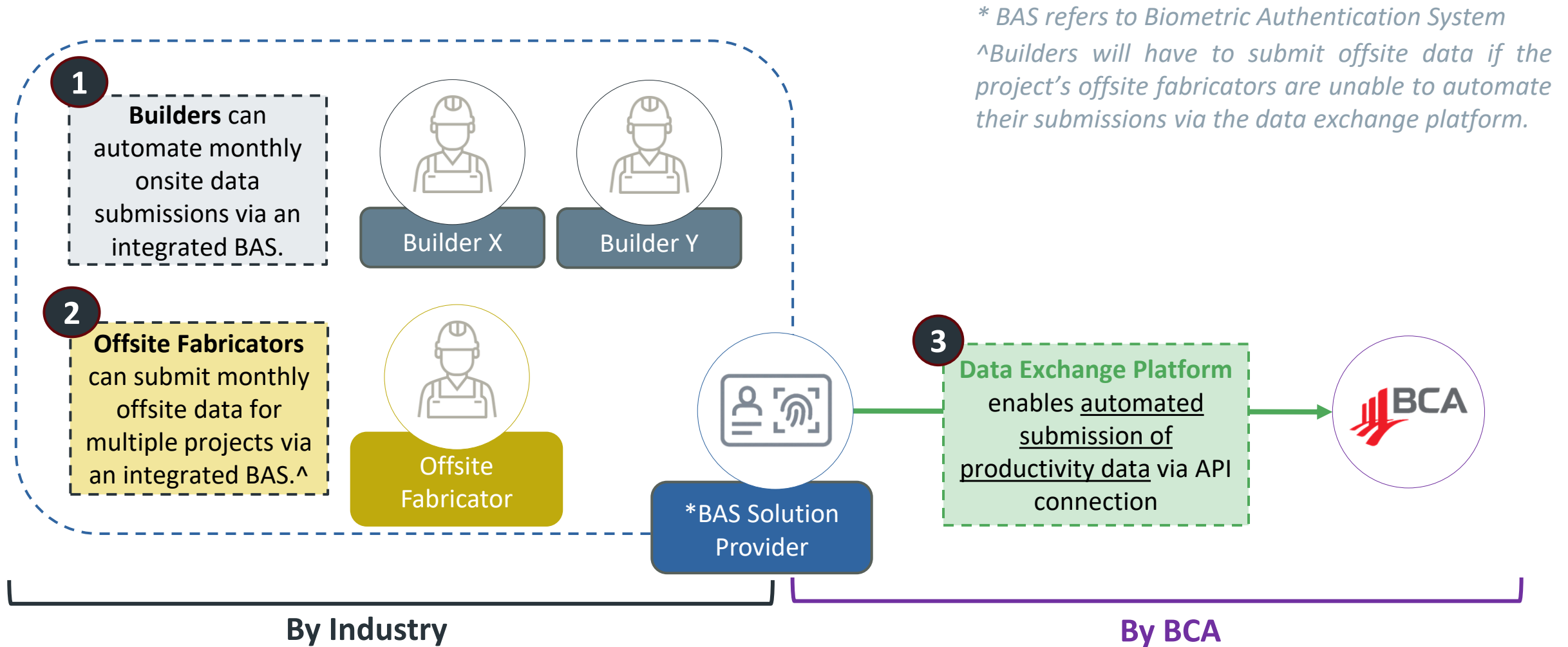
- Automated submission
- Integrated BAS Submit CPD
- 1 Data Schema
- 30 Trade Categories

Current CPD Submission Process

* BAS refers to Biometric Authentication System



New Automated Submission Process



Current Trade list & Schema

Monthly submission of aggregated mandays and unique worker numbers deployed across **over 150 trades in 7 categories, using 4 templates** for building, offsite, rail, road works.

Trades	ManPower Used (mandays)	No. of Unique Workers Deployed (Total Number)	No. of Unique Workers Deployed (Work Permit Holders only)
Site Management Team			
Site Management Team			
Basement			
Site Clearance & Mobilisation			
Machine Operator			
Excavation Work			
Temporary Retaining Structure			
Carpentry			
System Formwork Installation			
Steel Reinforcement Fixing			
Concrete Placement			
Pre-stressing Work			
Precast Concrete Installation			
Waterproofing			
Architectural Works			
M&E Works			
Others			
SubTotal(Basement)	0	0	0
Structure Works			
Carpentry			
System Formwork Installation			
Steel Reinforcement Fixing			
Concrete Placement			
Pre-stressing Work			
Precast Concrete Installation			
Structural Steel Work			
Others			
SubTotal(Structure Works)	0	0	0

Architectural Works			
Brick/ Blockwall			
Precast Concrete Installation			
Plaster			
Skim-coat			
Dry Partition Wall			
Glass Partition			
Cladding/ Curtain Wall			
Waterproofing			
Floor Screeds & hardeners			
Tiling/ Marble/ Stone			
Wood Flooring			
Resilient Flooring (Carpet, Vinyl)			
Resilient Flooring (Laminate)			
Raised Floor			
False Ceiling			
Door			
Window			
Cabinets & Wardrobe			
Painting			
Roofing System			
Others			
SubTotal(Architectural Works)	0	0	0
Building Service and M&E Works			
Plumbing/ Sanitary/ Gas System			
Fire Prevention and Protection System			
Electrical System			
ACMV System			
Lift/ Escalator			
Others			
SubTotal(Building Service and M&E Works)	0	0	0
General			
Machine Operator			
Quality Assurance			
Scaffold			
Safety and Health			
SubTotal(General)	0	0	0

Streamlined Trade List

These four templates have been streamlined into one trade list, reducing the number of trades from 150 to 30. These broader categories help builders register their workers more easily in their BAS, especially those serving multiple and related functions.

1. Ancillary Works	2. Civil and Structural Works	3. Architecture Works	4. Service Works
Site Management	Demolition	Ceiling	Plumbing, & Sanitary & Gas
Site Support	Earthworks	Partition Wall	Fire Prevention & Protection
General Machine Operation	Foundation	Floor	Electrical
Site Preparation	Tunnelling	Roofing	Mechanical
Scaffolding	Reinforced Concrete	Façade	Lift & Escalator
	Structural Steel	Door	Prefab MEP
	Mass Engineered Timber	Window	https://go.gov.sg/cpd-trades
	Road & Drainage	Finishes	
		Waterproofing	
		Joinery & Fixtures	
		Landscaping	

A trade mapping list from the existing ePSS trades to these new trades will provided to all BAS vendors during the onboarding with SGBuildex.

Revised Data Schema

MANPOWER UTILISATION DATA

Onsite Main Contractor

Offsite Fabricator

Personnel Information

(i.e. full NRIC/FIN, trade, work pass type)

Personnel's Employer Company Information*

(i.e. UEN, Name, trade)

Employer's Client Company Information*

(i.e. UEN, Name)

Manhours Tracking

(i.e. Time In, Time Out)

*(*NEW data fields to be collected)*

MANPOWER DISTRIBUTION DATA

Offsite Fabricator

Off Site Fabricator Details

(Company name, Location)

Production Details per Project

(Expected duration of production for project, ratio of manpower allocated)*

For the full list of data fields required for Manpower Utilisation and Distribution, please visit go.gov.sg/datastd, or scan this QR code. [Annex C – Page 103]



<https://go.gov.sg/datastd>

Benefits of Early Integration and Implementation Timeline



Stronger Client Retention

(Help builder clients achieve compliance to upcoming CPD submission requirements)



Greater Value Proposition

(Provide a better user experience to clients with streamlined processes)



Potential Market Expansion

(Leverage on upcoming demand for integrated BAS solution providers)

PILOT

VOLUNTARY

MANDATORY

9 JAN 2025

Engagement with Site Management Platform Vendors

FEB-NOV 2025

Phase 1
Onboarding of BAS Solution Providers to Pilot

1 DEC 2025

Circular on new Automated Construction Productivity Data Submission

23 JAN 2026

Phase 2
Onboarding of BAS Solution providers

FEB-APR 2026

Integration to new data exchange platform (approx. 2-3 months)

1 MAY 2026

All new building projects will be required to submit CPD via the new data exchange platform

Integrated BAS Solutions (as of Jan 2026)

INTERCORP



Upcoming:



For more info on the latest integrated solutions visit: <https://go.gov.sg/integrated-bas-providers>

Next Steps

SYSTEM ENHANCEMENT

- Assess required system updates
- Develop and integrate the system
- Conduct necessary UAT/SIT testing

CLIENT INDUCTION

- Engage builder clients to participate in the pilot
- Onboard clients and go live before 1 May 2026

Start your onboarding journey today!

Registration:



<https://go.gov.sg/automated-cpd-registration>



Thank You



@BCASingapore