

Chapter 8.1: STTR Design and Mechanics

Learning Objective

After completing this chapter, you will be able to identify payments subject to the Subject to Tax Rule (STTR), calculate the adjusted nominal tax rate and STTR specified rate, apply the mark-up proxy to exclude low-risk transactions, and understand how STTR interacts with existing tax treaties and the GloBE Rules.

PILLAR TWO: TWO COMPLEMENTARY MECHANISMS	
GloBE RULES	STTR
• Domestic legislation	• Treaty-based rule
• 15% minimum ETR	• 9% minimum nominal rate
• Jurisdictional blending	• Payment-by-payment
• All MNE income	• Specific covered payments
• IIR/UTPR/QDMTT collection	• Source country collection
Applies to: All in-scope MNEs (\$750M+ revenue)	Applies to: Treaty partners (developing country request)
INTERACTION: STTR applies FIRST; STTR tax is creditable under GloBE	

Why STTR Exists

The STTR addresses a specific concern of **developing countries**:

Concern	STTR Response
Developing countries often serve as source jurisdictions	STTR grants source countries the right to "tax back" undertaxed payments
Existing treaties may limit withholding tax rates	STTR overrides treaty limits for covered payments
GloBE Rules primarily benefit residence jurisdictions (via IIR)	STTR ensures source countries capture some minimum tax

1. STTR Scope: Covered Income

1.1 What Payments Are Covered?

The STTR applies to specific categories of **intra-group payments** when paid to connected persons in a jurisdiction with a nominal tax rate below 9%.

STTR COVERED INCOME TYPES

CATEGORY 1: INTEREST

- All interest payments between connected persons
- No mark-up threshold applies
- Subject only to materiality threshold

CATEGORY 2: ROYALTIES

- Payments for use of intellectual property

- Patents, trademarks, copyrights, know-how
- No mark-up threshold applies

CATEGORY 3: OTHER COVERED PAYMENTS

- Distribution rights payments
- Equipment rental (industrial, commercial, scientific)
- Service fees (intra-group services)
- Insurance and reinsurance premiums

Note: Mark-up threshold (8.5%) applies to these payments

NOT COVERED

- Dividends
- Capital gains
- Business profits (other than above categories)
- Payments to unconnected persons

1.2 Connected Persons Definition

The STTR applies only to payments between **connected persons**:

Test	Threshold
Direct ownership	>50% of voting rights or capital
Indirect ownership	>50% through chain of entities
Common control	Both entities >50% owned by same person(s)

Test	Threshold
De facto control	Control as a matter of fact and circumstance

Example:

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Stratos Holdings plc (UK)
|
└── 100% owns SG Ireland Ltd
    |
    └── Pays royalties to SG Luxembourg S.à r.l.
        (also 100% owned by Stratos)

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Result: SG Ireland and SG Luxembourg are CONNECTED PERSONS
→ Royalty payment is within STTR scope

2. The 9% Nominal Rate Threshold

2.1 Adjusted Nominal Rate

The STTR applies when the **adjusted nominal tax rate** in the recipient jurisdiction is below **9%**.

ADJUSTED NOMINAL RATE CALCULATION

Step 1: Identify STATUTORY rate applicable to recipient
→ General corporate rate OR
→ Special rate for specific income type

Step 2: Adjust for PREFERENTIAL ADJUSTMENTS
→ Permanent reductions in taxable base
→ Special deductions or exemptions
→ IP box regimes with reduced rates

Step 3: Determine ADJUSTED NOMINAL RATE

→ Statutory rate × (1 - preferential adjustment %)

Step 4: Compare to 9% THRESHOLD

→ If < 9%: STTR potentially applies

→ If ≥ 9%: STTR does not apply

2.2 Examples of Adjusted Nominal Rates

Jurisdiction	Statutory Rate	Preferential Regime	Adjusted Nominal Rate	STTR Applies?
Ireland	12.5%	None	12.5%	No
Luxembourg	24.94%	IP box (80% exemption)	4.99%	Yes
Netherlands	25.8%	Innovation box (9% rate)	9%	Borderline
Singapore	17%	Pioneer status (0%)	0%	Yes
Switzerland	14%	Patent box (90% relief)	1.4%	Yes
UK	25%	Patent box (10% rate)	10%	No

2.3 Preferential Adjustments

The adjusted nominal rate accounts for **preferential adjustments** that permanently reduce the tax base:

Adjustment Type	Treatment
IP box/Patent box	Apply reduced effective rate

Adjustment Type	Treatment
Participation exemption	Not a preferential adjustment (applies to dividends, excluded from STTR)
Accelerated depreciation	Not preferential (timing difference)
R&D super deduction	Preferential if permanent
Notional interest deduction	Preferential adjustment
Tax holidays	Apply 0% rate for holiday period

3. STTR Specified Rate Calculation

When the STTR applies, the **source country** may impose additional tax up to the **specified rate**.

3.1 Formula

$$\text{STTR SPECIFIED RATE} = 9\% - \text{Adjusted Nominal Rate} - \text{Existing Treaty WHT}$$

Where:

- 9% = STTR minimum rate
- Adjusted Nominal Rate = Rate in recipient jurisdiction
- Existing Treaty WHT = Withholding tax rate permitted under other treaty

3.2 Worked Example: Royalty Payment

Scenario: SG Germany GmbH (source) pays €5 million royalties to SG Singapore Pte Ltd (recipient).

Item	Value
Singapore statutory rate	17%
Singapore applies pioneer status to IP income	0% effective rate
Adjusted nominal rate	0%
Germany-Singapore treaty WHT on royalties	0%
STTR specified rate	9% – 0% – 0% = 9%
Royalty payment	€5,000,000
STTR tax (Germany collects)	€5,000,000 × 9% = €450,000

3.3 Worked Example: Interest Payment with Existing WHT

Scenario: SG Ireland Ltd (source) pays €2 million interest to a Luxembourg financing entity.

Item	Value
Luxembourg statutory rate	24.94%
Luxembourg applies participation exemption financing rules	0% on intra-group interest
Adjusted nominal rate	0%
Ireland-Luxembourg treaty WHT on interest	0%
STTR specified rate	9% – 0% – 0% = 9%
Interest payment	€2,000,000

Item	Value
STTR tax (Ireland collects)	$\text{€}2,000,000 \times 9\% = \text{€}180,000$

3.4 Interaction with Existing WHT

If the existing treaty already permits withholding tax, the STTR **tops up** to ensure a combined 9% minimum rate.

Example: Source country treaty permits 5% WHT on royalties; recipient nominal rate is 2%.

STTR COLLECTION MECHANISM

The STTR specified rate represents the ADDITIONAL tax the source country may impose BEYOND what it can already collect under the treaty.

Given:

- Adjusted nominal rate in recipient = 2%
- Existing treaty WHT permitted = 5%
- Combined: $2\% + 5\% = 7\%$

STTR calculation:

- STTR specified rate = $9\% - 2\% - 5\% = 2\%$

Source country collects:

- 5% under existing treaty + 2% under STTR = 7% total

Total tax on payment:

- 2% domestic tax (recipient jurisdiction)
- 7% withholding tax (source jurisdiction)
- Combined: 9% minimum achieved

The 9% minimum is achieved through combination of:

- Recipient jurisdiction tax (adjusted nominal rate)

2. Source jurisdiction WHT under existing treaty
3. Source jurisdiction STTR top-up (if needed)

4. Mark-up Proxy: Substantial Activities Test

4.1 Purpose

The **mark-up threshold** excludes low-margin payments from the STTR, serving as a proxy for **substantial activities**. If the recipient earns only a modest return, the BEPS risk is considered limited.

4.2 Application

MARK-UP THRESHOLD

Applies to: Service fees, equipment rental, distribution rights
Does NOT apply to: Interest, royalties

Test: Is the gross income $>$ (Costs + 8.5% of Costs)?

If YES: Mark-up exceeds threshold → STTR may apply

If NO: Mark-up within threshold → STTR does NOT apply

4.3 Calculation

MARK-UP THRESHOLD CALCULATION

Step 1: Identify GROSS INCOME from covered payment
→ Total payment received

Step 2: Identify ATTRIBUTABLE COSTS
→ Direct costs of earning the income
→ Indirect costs reasonably attributable

Step 3: Calculate THRESHOLD AMOUNT

$$\rightarrow \text{Costs} + (\text{Costs} \times 8.5\%)$$
$$\rightarrow = \text{Costs} \times 1.085$$

Step 4: Apply TEST

- \rightarrow If Gross Income > Threshold: STTR may apply
- \rightarrow If Gross Income \leq Threshold: STTR does not apply

4.4 Worked Example: Service Fee

Scenario: SG Singapore Pte Ltd provides management services to SG Ireland Ltd.

Item	Amount
Service fee received	€1,200,000
Direct costs (personnel, travel)	€800,000
Indirect costs (allocated overhead)	€200,000
Total attributable costs	€1,000,000
Threshold calculation	$€1,000,000 \times 1.085 =$ €1,085,000
Test: Is €1,200,000 > €1,085,000?	Yes
Mark-up: $(€1,200,000 - €1,000,000) /$ €1,000,000	20%
Result: Mark-up (20%) exceeds 8.5% \rightarrow STTR may apply	

4.5 Worked Example: Low-Margin Service

Scenario: Same service, but lower fee.

Item	Amount
Service fee received	€1,050,000
Total attributable costs	€1,000,000
Threshold calculation	$\text{€1,000,000} \times 1.085 =$ €1,085,000
Test: Is €1,050,000 > €1,085,000?	No
Mark-up: $(\text{€1,050,000} - \text{€1,000,000}) / \text{€1,000,000}$	5%
Result: Mark-up (5%) within 8.5% → STTR does NOT apply	

4.6 Summary: Mark-up Threshold

Payment Type	Mark-up Threshold Applies?
Interest	No
Royalties	No
Service fees	Yes (8.5%)
Equipment rental	Yes (8.5%)
Distribution rights	Yes (8.5%)
Insurance premiums	Yes (8.5%)

5. Materiality Threshold

5.1 De Minimis Exclusion

The STTR includes a **materiality threshold** to exclude small payments:

Source Country GDP	Materiality Threshold
≥ €40 billion	€1,000,000 per year
< €40 billion	€250,000 per year

5.2 Application

The threshold applies to the **aggregate** of all covered payments from the source country to connected persons in the recipient jurisdiction during the fiscal year.

Example:

SG Germany GmbH makes the following payments to SG Singapore Pte Ltd:

- Royalties: €400,000
- Service fees: €300,000
- Interest: €200,000
- Total covered income: €900,000

Germany GDP: > €40 billion → Threshold: €1,000,000

Result: Total (€900,000) < Threshold (€1,000,000)
→ STTR does NOT apply to any payments

6. Treaty Interaction

6.1 STTR and Existing Treaty Articles

The STTR operates as a **new article** inserted into existing bilateral tax treaties. It does not replace existing provisions but adds an additional taxing right.

TREATY STRUCTURE WITH STTR

Existing Treaty Articles:

- |— Article 11: Interest (e.g., 10% WHT limit)
- |— Article 12: Royalties (e.g., 5% WHT limit)
- |— Article 13: Service fees (often no WHT)
- |

NEW STTR Article:

- |— Article XX: Subject to Tax Rule
 - Allows source country to impose additional tax
 - Up to STTR specified rate
 - On covered income taxed below 9% in recipient country

6.2 Priority Rules

STTR PRIORITY AND INTERACTION

1. EXISTING TREATY RIGHTS PRESERVED

- Source country retains any existing WHT rights
- STTR tops up to 9%, not replaces

2. STTR vs GloBE RULES

- STTR applies FIRST (treaty level)
- STTR tax is CREDITABLE under GloBE Rules
- Reduces GloBE Top-Up Tax liability

3. STTR vs QDMTT

- STTR tax reduces income for QDMTT purposes

→ No double counting

EXAMPLE:

Payment: €10 million royalty

STTR tax collected by source: €900,000 (9%)

For GloBE purposes:

- Recipient includes €10 million income
- Credits €900,000 STTR as covered tax
- ETR increased by STTR credit

6.3 GloBE Interaction Example

Before STTR:

Recipient jurisdiction (Singapore, 0% on IP income):

GloBE Income: €10,000,000

Covered Taxes: €0

ETR: 0%

Top-Up Tax %: 15%

Top-Up Tax: $\text{€}10,000,000 \times 15\% = \text{€}1,500,000$ (to UPE jurisdiction)

After STTR:

Source jurisdiction collects STTR: €900,000

Recipient jurisdiction (Singapore):

GloBE Income: €10,000,000

Covered Taxes: €900,000 (STTR credit)

ETR: 9%

Top-Up Tax %: 6%

Top-Up Tax: $\text{€}10,000,000 \times 6\% = \text{€}600,000$ (to UPE jurisdiction)

Total tax on payment:

- STTR (source): €900,000

- GloBE Top-up (UPE): €600,000
- Total: €1,500,000 (15% effective rate achieved)

7. STTR Impact Assessment Framework

7.1 Step-by-Step Assessment

STTR IMPACT ASSESSMENT FRAMEWORK

For each intercompany payment:

STEP 1: IS THE PAYMENT COVERED INCOME?

- | | |
|--|----------------------------|
| <input type="checkbox"/> Interest | → YES (proceed) |
| <input type="checkbox"/> Royalties | → YES (proceed) |
| <input type="checkbox"/> Service fees | → YES (proceed) |
| <input type="checkbox"/> Equipment rental | → YES (proceed) |
| <input type="checkbox"/> Distribution rights | → YES (proceed) |
| <input type="checkbox"/> Insurance premiums | → YES (proceed) |
| <input type="checkbox"/> Dividends | → NO (STTR does not apply) |
| <input type="checkbox"/> Other | → NO (STTR does not apply) |



STEP 2: ARE THE PARTIES CONNECTED?

- | | |
|---|----------------------------|
| <input type="checkbox"/> >50% common ownership? | → YES (connected) |
| <input type="checkbox"/> Common control? | → YES (connected) |
| <input type="checkbox"/> Neither | → NO (STTR does not apply) |



STEP 3: DOES THE MATERIALITY THRESHOLD APPLY?

- Total covered payments to recipient jurisdiction: €_____
- Source country GDP \geq €40B? → Threshold: €1,000,000
- Source country GDP $<$ €40B? → Threshold: €250,000
- Total $<$ Threshold? → NO (STTR does not apply)
- Total \geq Threshold? → YES (proceed)



STEP 4: DOES THE MARK-UP THRESHOLD APPLY? (Services/Rental only)

For interest/royalties: SKIP (no mark-up test)

For services/rental:

Gross income: €_____

Attributable costs: €_____

Threshold (costs \times 1.085): €_____

- Gross income \leq Threshold? → NO (STTR does not apply)
- Gross income $>$ Threshold? → YES (proceed)



STEP 5: WHAT IS THE ADJUSTED NOMINAL RATE?

Recipient jurisdiction statutory rate: _____%

Preferential adjustment (if any): _____%

Adjusted nominal rate: _____%

- Adjusted nominal rate \geq 9%? → NO (STTR does not apply)
- Adjusted nominal rate $<$ 9%? → YES (proceed)

STEP 6: CALCULATE STTR SPECIFIED RATE

STTR specified rate = 9% - Adjusted nominal rate - Existing WHT

$$= 9\% - \underline{\hspace{2cm}}\% - \underline{\hspace{2cm}}\% = \underline{\hspace{2cm}}\%$$

STTR TAX = Payment amount × Specified rate

$$= €\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}\% = €\underline{\hspace{2cm}}$$

8. Stratos Worked Example: STTR Assessment

8.1 Background

Stratos Holdings plc assesses STTR exposure on intercompany payments for FY 2025.

Intercompany Payment Matrix

Payer	Recipient	Payment Type	Amount (€)	Notes
SG Germany	SG Singapore	Royalties	2,500,000	IP licence
SG Ireland	SG Luxembourg	Interest	3,000,000	Intercompany loan
SG Germany	SG Ireland	Service fees	1,800,000	Shared services
SG UK	SG Singapore		800,000	

Payer	Recipient	Payment Type	Amount (€)	Notes
		Distribution rights		Product distribution

8.3 Assessment 1: Royalties (Germany → Singapore)

Step	Assessment
1. Covered income?	Royalties → Yes
2. Connected persons?	Both 100% owned by Stratos → Yes
3. Materiality?	€2.5M > €1M (Germany GDP > €40B) → Exceeds
4. Mark-up threshold?	N/A for royalties
5. Adjusted nominal rate?	Singapore 17%, but 0% under pioneer status → 0%
6. STTR specified rate?	9% – 0% – 0% (no treaty WHT) = 9%

STTR Tax: $\text{€}2,500,000 \times 9\% = \text{€}225,000$ (collected by Germany)

8.4 Assessment 2: Interest (Ireland → Luxembourg)

Step	Assessment
1. Covered income?	Interest → Yes
2. Connected persons?	Both 100% owned by Stratos → Yes
3. Materiality?	€3M > €1M (Ireland GDP > €40B) → Exceeds
4. Mark-up threshold?	N/A for interest

Step	Assessment
5. Adjusted nominal rate?	Luxembourg 24.94% general, but IP financing regime 0% → 0%
6. STTR specified rate?	$9\% - 0\% - 0\% = \mathbf{9\%}$

STTR Tax: $\text{€}3,000,000 \times 9\% = \mathbf{\text{€}270,000}$ (collected by Ireland)

8.5 Assessment 3: Service Fees (Germany → Ireland)

Step	Assessment
1. Covered income?	Service fees → Yes
2. Connected persons?	Both 100% owned by Stratos → Yes
3. Materiality?	$\text{€}1.8M > \text{€}1M \rightarrow \mathbf{Exceeds}$
4. Mark-up threshold?	Gross: €1.8M; Costs: €1.5M; Threshold: €1.6275M → Exceeds 8.5%
5. Adjusted nominal rate?	Ireland 12.5% → ≥ 9%
6. STTR?	Does NOT apply (rate $\geq 9\%$)

STTR Tax: €0

8.6 Assessment 4: Distribution Rights (UK → Singapore)

Step	Assessment
1. Covered income?	Distribution rights → Yes

Step	Assessment
2. Connected persons?	Both 100% owned by Stratos → Yes
3. Materiality?	€800,000 < €1M → Below threshold
4. STTR?	Does NOT apply (materiality not met)

STTR Tax: €0

8.7 Summary: Stratos STTR Exposure

Payment	Payer	Recipient	STTR Tax (€)	Collecting Jurisdiction
Royalties	Germany	Singapore	225,000	Germany
Interest	Ireland	Luxembourg	270,000	Ireland
Services	Germany	Ireland	0	—
Distribution	UK	Singapore	0	—
Total			€495,000	

8.8 GloBE Impact

The STTR taxes increase Covered Taxes in the recipient jurisdictions:

Jurisdiction	Pre-STTR Covered Taxes	STTR Credit	Post-STTR Covered Taxes
Singapore	€392,206	+€225,000	€617,206
Luxembourg	€212,500	+€270,000	€482,500

Singapore ETR Impact: - Pre-STTR: €392,206 / €4,000,000 = 9.81% - Post-STTR: €617,206 / €4,000,000 = **15.43%** (above 15% minimum!)

Result: Singapore no longer generates GloBE Top-Up Tax after STTR credit.

9. Common Pitfalls

9.1 Pitfall 1: Ignoring Preferential Regimes

Error: Assuming the statutory rate is the adjusted nominal rate.

Correct approach: Identify all preferential adjustments (IP boxes, tax holidays, notional deductions) that reduce the effective rate on the specific payment.

9.2 Pitfall 2: Applying Mark-up Test to Interest/Royalties

Error: Excluding interest or royalty payments because the mark-up is below 8.5%.

Correct approach: The mark-up threshold does **not apply** to interest and royalties. These payments are subject to STTR regardless of the margin.

9.3 Pitfall 3: Forgetting Materiality Aggregation

Error: Testing each payment individually against the materiality threshold.

Correct approach: Aggregate **all** covered payments from the source country to connected persons in the recipient jurisdiction. Test the total against the threshold.

9.4 Pitfall 4: Double-Counting STTR in GloBE

Error: Not crediting STTR tax as Covered Taxes under GloBE.

Correct approach: STTR taxes paid are creditable under the GloBE Rules. They increase Covered Taxes and thus increase the ETR in the recipient jurisdiction.

9.5 Pitfall 5: Assuming STTR Applies to All Treaties

Error: Calculating STTR exposure without confirming the treaty has been modified.

Correct approach: STTR only applies if the relevant bilateral treaty has been amended (via MLI or bilateral negotiation) to include the STTR provision. Check implementation status.

10. STTR Assessment Checklist

STTR ASSESSMENT CHECKLIST

MNE Group: _____

Fiscal Year: _____

SECTION A: IDENTIFY INTERCOMPANY PAYMENTS

List all intercompany payments between connected group entities:

#	Payer	Recipient	Type	Amount (€)
1				
2				
3				

SECTION B: FILTER FOR STTR SCOPE

For each payment:

- Is payment type covered? (Interest/Royalty/Service/Rental/Distribution)
 - Are parties connected? (>50% common ownership)
 - Is relevant treaty modified to include STTR?
-

SECTION C: AGGREGATE BY RECIPIENT JURISDICTION

Recipient Jurisdiction	Total Covered Payments (€)	Materiality Threshold
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SECTION D: APPLY MARK-UP TEST (Services/Rental Only)

Payment	Gross (€)	Costs (€)	Threshold (€)	Mark-up %	Applies
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SECTION E: DETERMINE ADJUSTED NOMINAL RATES

Recipient Jurisdiction	Statutory Rate	Preferential Regime	Adjusted Nominal Rate
----- ----- ----- -----			

SECTION F: CALCULATE STTR TAX

Payment	Amount (€)	Adj. Nom. Rate	Treaty WHT	Specified Rate	STTR Tax (€)
----- ----- ----- ----- -----					

TOTAL STTR EXPOSURE: €_____

SECTION G: GloBE IMPACT

Recipient Jurisdiction	Pre-STTR ETR	STTR Credit (€)	Post-STTR ETR

STTR credits recorded as Covered Taxes in GloBE calculation