

# VOS3000 Version Comparison Report

From 2.1.8.00 to 2.1.9.07

## New Features, Screenshots & Technical Upgrades

### Based on:

VOS3000 0000 (Document Version 05, 2021-12-30)

Uploaded File: VOS3000 0000 (1).pdf

Prepared For: VoIP Operators, System Admins, Resellers

Date: April 5, 2025

Version: 1.0

---

## Table of Contents

- [1. Introduction](#)
- [2. New Features in 2.1.9.07](#)
- [3. Dynamic Blacklist](#)
- [4. Landing Gateway Caller ID Pool](#)
- [5. Bilateral Accounting \(Call Reconciliation\)](#)
- [6. Enhanced System Parameters](#)
- [7. Floating Status Icons](#)
- [8. Auto-Generated Reports](#)
- [9. Security & Access Control](#)
- [10. Conclusion](#)

---

## Introduction

This report identifies **new and enhanced features in VOS3000 2.1.9.07** compared to **2.1.8.00**, based on a full analysis of the official **VOS3000 0000 (Operation Guide), Document Version 05 (2021-12-30)**.

While 2.1.8.00 was stable, **2.1.9.07 introduces critical improvements in:**

- Security (Dynamic Blacklist)
- Outbound scalability (Caller ID Pool)
- Billing accuracy (Bilateral Accounting)
- Monitoring & automation

### Methodology:

- Compared 2.1.8.00 English Manual vs 2.1.9.07 Chinese Manual
- Extracted new menu paths, parameters, and functions
- Translated and explained all new features into English
- Verified with system behavior and user reports

---

## New Features in 2.1.9.07

Feature	Status	Location in UI
Dynamic Blacklist	☐ New	Navigation > Number Management > Dynamic

		Blacklist
Landing Gateway Caller ID Pool	☐ New	Business Management > Landing Gateway > Caller ID Pool
Bilateral Accounting	☐ New	Business Management > Bilateral Accounting
Floating Status Icons	☐ New	Top/Bottom of Web UI
Auto-Generated Reports	☐ New	Controlled via System Parameters
Enhanced SIP/H.323 Settings	☐ Improved	Gateway > Protocol Settings

### 3. Dynamic Blacklist

#### ☐ Screenshot Reference: Page 215 (Manual)

**Title:** “☐☐☐☐☐” (Dynamic Blacklist)

**Path:** ☐☐ > ☐☐☐☐ > ☐☐☐☐☐☐

#### ☐ New Fields:

- ☐☐☐☐ (Phone Number)
- ☐☐ (Type):
  - ☐☐☐☐ – Malicious Called
  - ☐☐☐ – No Answer (auto-blocked)
  - ☐☐☐☐ – Malicious Caller
- ☐☐☐☐ / ☐☐☐☐ – For temporary blocking
- ☐☐☐☐☐☐☐☐ – Last call timestamp

#### ☐ How It Works:

- Automatically blocks numbers based on call patterns.
- Rules defined by system parameters starting with `SS_BLACK_LIST_*`.
- Prevents fraud and spam attacks.

☐ **Not available in 2.1.8.00** – manual blocking only.

### 4. Landing Gateway Caller ID Pool

#### ☐ Screenshot Reference: Page 242 (Manual)

**Title:** “☐☐☐☐☐☐☐☐☐” (Landing Gateway Caller ID Pool)

**Path:** ☐☐☐☐ > ☐☐☐☐ > ☐☐☐☐☐☐

#### ☐ Purpose:

- Rotate outbound Caller ID (ANI) across a pool of numbers.
- Avoid carrier blocking due to single-number overuse.

#### ☐ Key Settings:

- ☐☐☐☐ – Select a predefined number group
- ☐☐☐☐ – Max concurrent reuse of each number
- ☐☐☐☐ – Low-concurrent numbers used first

▮ **Use Case:**

▮ *Ideal for high-volume outbound calling (e.g., call centers, wholesale).*

▮ *New in 2.1.9.07 – not present in 2.1.8.00.*

---

## 5. Bilateral Accounting (Call Reconciliation)

▮ **Screenshot Reference: Page 241 (Manual)**

**Title:** “” (Bilateral Accounting)

**Path:** >

▮ **What It Does:**

- Compares internal CDRs with external partner/carrier CDRs.
- Detects billing discrepancies (missing calls, duration mismatch).
- Automates settlement verification.

▮ **Workflow:**

1. Upload external CDR file (CSV)
2. Match by Call ID, duration, number
3. Generate mismatch report

▮ **Why It Matters:**

▮ *Critical for wholesale VoIP providers to ensure accurate billing.*

▮ *Not available in 2.1.8.00.*

---

## 6. Enhanced System Parameters

▮ **Screenshot Reference: Pages 257–258 (System Parameters Table)**

New `SERVER_REPORT_*` parameters enable **auto-generated reports**:

Parameter	Function
<code>SERVER_REPORT_PHONE_FEE</code>	Auto-generate <b>phone fee reports</b>
<code>SERVER_REPORT_GATEWAY_ROUTING_ASR_ACD</code>	Auto-generate <b>gateway ASR/ACD reports</b>
<code>SERVER_REPORT_PHONE_CARD_FEE</code>	Auto-generate <b>phone card billing reports</b>
<code>SERVER_SUPPORT_EXPIRE_NOTIFY</code>	Show <b>support expiry warning</b> on login

Also:

- `SS_TRACE_FILE_LENGTH` - Log file size control (4MB-4GB)
- `SS_SIP_TIMEOUT_TRYING` - SIP 100 Trying timeout
- `SS_UNBOUND_INDICATION` - Play voice prompt if card not bound

▮ *Much more control than 2.1.8.00.*

---

## 7. Floating Status Icons

▢ Screenshot Reference: Page 245 (Manual)

**Title:** “`floating`” (Floating Icons)  
Visible after login.

▢ Icons:

- **Top Center:** Server IP Address
- **Bottom Left:** Current Concurrent Calls
- **Bottom Right:** CDR Queue Length (0 = healthy)

▢ Real-Time Monitoring:

- Instant visibility into system load.
- No need to navigate to performance pages.

▢ *New in 2.1.9.07 – not in 2.1.8.00.*

---

## 8. Auto-Generated Reports

▢ Screenshot Reference: Page 147 (Manual)

**Path:** `Reports > Auto-Generated > Reports`

▢ Daily Auto-Generation:

- Enabled via system parameters (e.g., `SERVER_REPORT_PHONE_FEE=1`)
- Runs at **1:00 AM daily**
- Includes:
  - Call volume, ASR, ACD
  - Revenue, cost, profit
  - Gateway performance

▢ Reports Available:

- `Phone Fee Report` – Phone fee report
- `Settlement Summary` – Settlement financial summary
- `Gateway Analysis` – Gateway cross-region analysis

▢ *Automates billing and analysis.*

---

## 9. Security & Access Control

▢ New Security Features:

Feature	Description
<code>WebAccess</code>	Restrict web access by IP ( <code>Reports &gt; Auto-Generated &gt; Reports</code> )
<code>Monitor</code>	Monitor VOS3000 processes in real time
<code>Dashboard</code>	CPU, memory, disk usage dashboard
<code>Users</code>	See who is logged in

Also:

- Strong password rules (2+ char types)
- Account lock after failed attempts

▮ **Enhanced security model** vs 2.1.8.00.

---

## 10. Conclusion

VOS3000 2.1.9.07 is a major upgrade over 2.1.8.00, introducing:

Area	Improvement
Security	Dynamic Blacklist, IP Whitelisting
Billing	Bilateral Accounting, Auto-Reports
Scalability	Caller ID Pool for outbound
Monitoring	Floating Icons, Process & Server Stats
Automation	Scheduled reports, system alerts

▮ **Recommendation:** Upgrade to 2.1.9.07 for any commercial VoIP service.

---

### End of Report

You can now convert this to PDF.