MAIN FEATURES

- Fully integrated device for secured SIP trunking and PSTN access.
- Hybrid SBC and Media Gateway platform lowers CAPEX and reduces space and power footprints.
- Extensive interoperability and partnerships that extend across multiple vendor devices and protocol implementations.
- Offers comprehensive security, interoperability and reliability.
- Delivers high service performance and voice quality.
- Branch office survivability in the event of a WAN outage.

Security

The DW-GTW-AC-E1060 provides robust protection for the IP communications infrastructure, preventing Denial of Service, fraud and service theft and guarding against cyber-attacks and other service-impacting events.

Reliability

DW-GTW-AC-E1060 offers active/standby high availability and maintains high voice quality to deliver reliable enterprise VoIP communications. Advanced call routing mechanisms, network voice quality monitoring and branch survivability capabilities (including PSTN fallback).

Vast mediation capabilities and proven interoperability

The DW-GTW-AC-E1060 supports a wide range of voice coders and is capable of transcoding between narrowband and wideband voice coders, providing SIP normalization, fax handling, gain control and numerous additional media processing features. It offers certified interoperability with leading unified communications solutions and SIP trunking providers.

The DW-GTW-AC-E1060 Enterprise Session Border Controller (E-SBC) and Media Gateway offers a complete connectivity solution for small-to-medium sized enterprises.

The DW-GTW-AC-E1060 connects IP-PBXs to any SIP trunking service provider, scaling up to 250 concurrent SBC sessions. It offers superior performance in connecting any SIP to SIP environment, legacy TDM-based PBX systems to IP networks, and IP-PBXs to the PSTN, supporting up to 60 voice channels in a 1U platform.

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## Capabilities *

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<tr>
<th>Feature</th>
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</thead>
<tbody>
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<td><strong>SBC Sessions</strong></td>
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### Voice Quality and SLA

- **Call Admission Control**
  - Based on bandwidth, session establishment rate, number of connections/registrations
- **Packet marking**
  - 802.1p/Q VLAN tagging, Diffserv, TOS
- **Standalone Survivability**
  - Maintains local calls in the event of WAN failure. Outbound calls can use PSTN fallback for external connectivity (including E911)
- **Impairment Mitigation**
- **Voice Enhancement**
  - Transrating. RTCP-XR. Acoustic echo cancellation, replacing voice profile due to impairment detection. Fixed & dynamic voice gain control
- **Direct Media** *(No Media Anchoring)*
  - Hair-pinning of local calls to avoid unnecessary media delays and bandwidth consumption
- **Voice Quality Monitoring**
  - RTCP-XR, Denwa Session Experience Manager (D-SEM)
- **High Availability (Redundancy)**
  - SBC high availability with two-box redundancy, active calls preserved
- **Quality of Experience**
  - Access control and media quality enhancements based on QoE and bandwidth utilization
- **Test agent**
  - Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs

### SIP Routing

- **Routing Methods**
  - Request URL, IP address, FQDN, ENUM, advanced LDAP, third-party routing control through REST API
- **Advanced Routing Criteria**
  - QoE, bandwidth, SIP message (SIP request, coder type, etc.). Layer-3 parameters
- **Routing Features**
  - Least-cost routing, call forking, load balancing, E911 gateway support, emergency call detection and prioritization
- **SIP Rec**
  - IETF standard SIP recording interface

### Management

- **OAMP**
  - Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, EMS
- **Physical / Environmental**
  - Dimensions: 1U x 320mm x 345mm (HxWxD)
  - Weight: Approx. 9.5lb (2.7kg) loaded with OSN
  - Mounting: Desktop or 19” rack mount
  - Power: 100-240V 4A 50-60 Hz
  - Operating Temperature: 5°-40° C

### Regulatory Compliance

- **Telecommunications**
  - TIA/EIA-5-968 (FXO, TI) interface, ETSI ES203 021 (FXO interface), TBR-4 (ISDN over E1 interface), TBR13/T3 (E1 lines), TBR-3 (BRI interface)
  - Safety and EMC
    - IEC60950-1, UL60950-1, FCC Part 15 Class A, EN55022 Class A, EN55024, EN300 386
  - Environmental Storage
    - ETS300019-2-1 class T1.2
  - Transportation
    - ETS300019-2-2 class T2.3
  - Operating
    - ETS300019-2-3

### Optional Licenses

- **Enterprise Session Border Controller (E-SBC)**
  - 5 sessions: MDE-SBC-005P

### Cloud Resilience Package (CRP)

- 25 registered users: DW-GTW-AC-CRP-025 / 50 registered users: DW-GTW-AC-CRP-050 / 100 registered users: DW-GTW-AC-CRP-100

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*See combinations table*