

Standard Local Survivability

- Available at the G250 ,G350,G450 and IG550
- Basic telephony is provided at the branch if connection to a server running the Avaya Communication Manager cannot be achieved
- Cost effective survivability for price sensitive customers:
 - No need to add S8300 LSP module with basic gateway structure
- The gateway continuously attempts to reconnect and when possible will automatically reconnect to a server
- The Provisioning and Installation Manager (PIM) is recommended for
 - configuration
 - configuration sync between CM and SLS on a regularly scheduled basis

**Customer benefit: integrated, no-cost survivability
for CM branch gateways**

Station Types

- SLS supports same legacy station/trunk ports that are administered on CM.
- Local station support includes:
 - Analog, DCP, IP phones, IP Softphone (Road Warrior app)
- H.323 Gatekeeper for local (co-located IP phones to register with
 - G250 supports max of 12 IP stations
 - G350 supports max of 72 IP stations
 - G450 supports max of 240 IP stations
 - IG550 supports max of 100 IP stations

Trunk Interfaces

- Supports PSTN trunks (inbound/outbound)
 - Analog loop-start, ground-start and DID
 - ISDN BRI and PRI (all 25 country codes, ETSI, QSIG)
 - T1 Robbed-bit trunks (co and tie)
 - E1 CAS trunks
- Trunk protocol state machines are based in SLS code in the gateway
- Contact closure supported for G250, G350, G450

Station Call Capability

- Upon failure to connect to the IP routed WAN, the gateway becomes a local branch “island” under the control of the SLS call engine and SLS routing tables.
- Supports local station to local station calls.
- Supports local station to local trunk calls.
- All calls covered by a simple call detail recording in Syslog format (50K NVRAM segment holds 667 records. Syslog server on local PC could extend storage)
- Stations have Class-of-Restriction (COR)
 - Emergency, Internal, Local, Toll, Unrestricted
- Same extension number plan as CM (max of 13 digits) and Same password

Station Features

- Distinct SLS dial tone
 - 2 seconds of 620Hz, 1 second break, followed by normal country dial tone.
- Digital phone displays re-initialized and managed by SLS.
- FAC codes supported:
 - ARS1, ARS2
 - Hold
 - Contact closure {open, close, pulse}
- 3 call appearance buttons on digital phones
- Hold
- Transfer

Trunk Call Capability

- Trunk groups maintain the same relationship as when CM manages the gateway.
 - Same trunk group number
 - Same trunk member identification (eg V401)
 - Same TAC code
 - Same digit treatment options for non-ISDN trunks
 - ISDN options are a subset of CM
 - No tandem trunk operation
 - No Calling Party Number/Name sent out
- DS1 features are proper subset of CM
- BRI features are proper subset of CM
- Signaling Group (for ISDN PRI) is essentially the same as CM supports.

Dial Plan Routing

- Dial plan analysis is a proper subset of what CM supports
 - Supports TAC dialing
 - Supports ARS-like dial pattern routing
 - Supports two ARS FAC codes
 - “ARS Analysis” and “Route Pattern” forms are collapsed into a single table for administration
 - Supports match-on-pattern, and deletion/insertion of dial string digits.
- Incoming routing (for ISDN) is a proper subset of CM’s ICHT table.

Active Mode - (Failover to SLS)

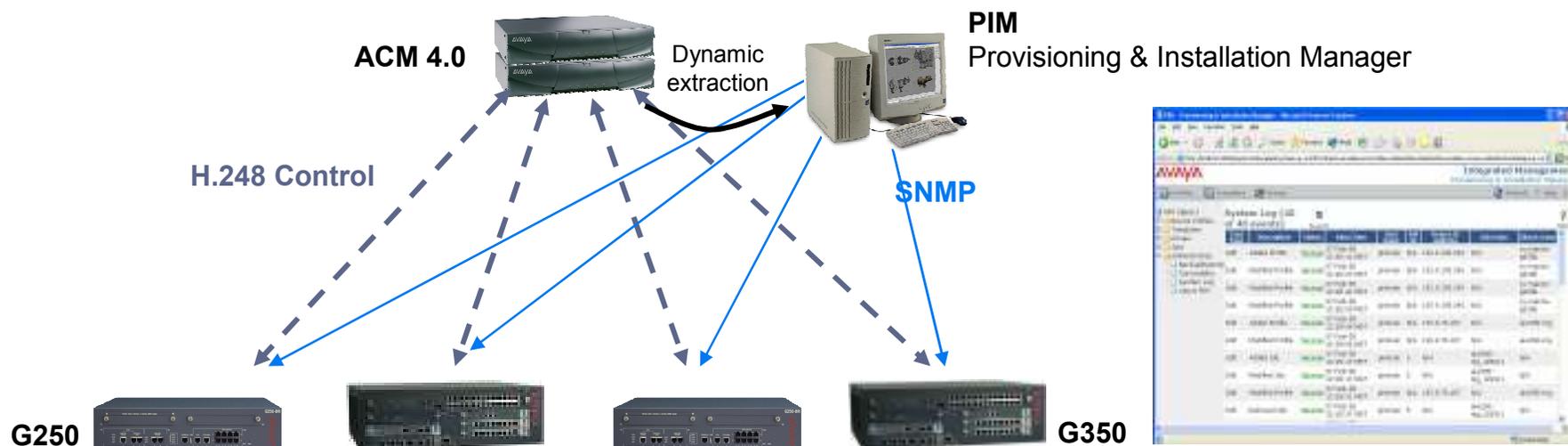
- Registration to CM attempted according to the MGC list. If all options fail → enter survivability mode (last option on the MGC list)
- In survivability mode : Internal H.323 Gatekeeper and H.248 Media GW Controller activated
 - Configures dial plan tables and gateway's legacy stations/trunks
 - Phones re-register to the internal gatekeeper
 - Distinct SLS dial tone
 - During transition to survivability mode, only local IP-IP calls will be preserved
- Keep trying to re-register to CM, according to the MGC list and recovery timers

H.248 Link Recovery & Fallback to CM Server

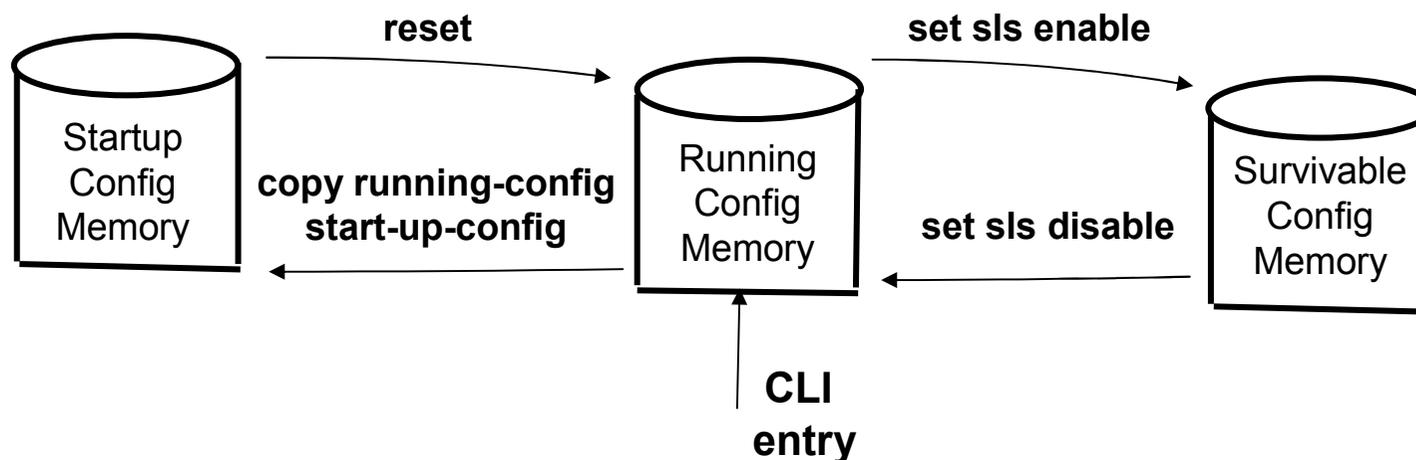
- While SLS is enabled and processing, MG continues to re-register with alternative Call Controller (CM), per the MGC list
- If CM or LSP accepts the registration, SLS will stop processing new calls
 - Unregister the legacy station/trunk ports on the gateway
 - Issue H.323 un-registration to IP phones
 - IP shuffled calls are preserved between two IP phones
 - No connection preservation on fallback
- The SLS application will go to inactive mode

SLS Provisioning

- SLS configuration must be provisioned in each gateway
 - slot configuration, dial plan, extensions & password, trunk group parameters, ...
- PIM (Provisioning & Installation Manager) automates and streamlines deployment process
 - provisioning via CLI also available
- SLS configuration can be backed up on (and restored from) USB flash drives



Gateway Configuration Storage



- CLI entry of information must be saved by invoking the command ‘copy running-config start-up-config’
- If SLS is currently “enabled”, and new CLI information is entered; craftsperson must:
 - invoke the command ‘set sls disable’ and then ‘set sls enable’ to cause new administration to be added to survivable running operation.