HiPath DX 9.0.071 (SMR1) overview

SIEMENS

Communications

Agenda

- Why a new HiPath DX Release?
- Overview of the release
- Project Time-Scales and Process
- Conclusion

Why a New HiPath DX Release?

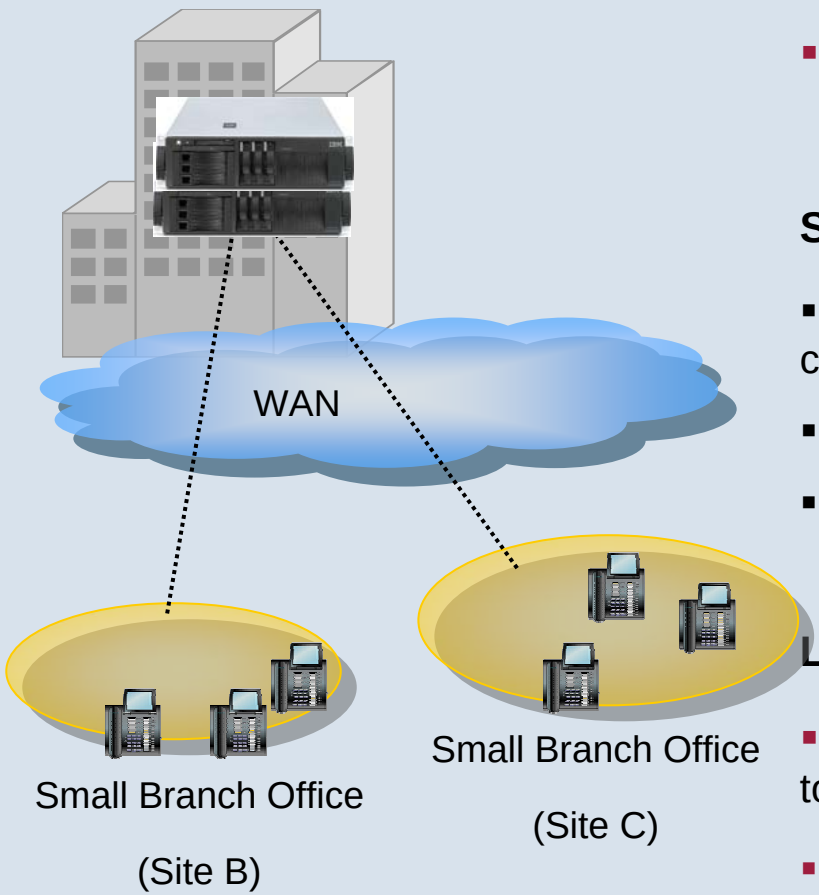
- Two features adding functionality for IP remote site applications
- Consistent with updates announcing concept of SMRs on HiPath DX
- Opportunity to improve quality of current release with patch incorporations

Overview of the Release

- Includes:

- Local PSTN Dialling Feature
- Switch based Congestion Control Feature
- Patch incorporations
- Specific Customer Developments

Switch based Congestion Control
Local Dialling Code



- IP Desktop at remote locations
- Users grouped according to location

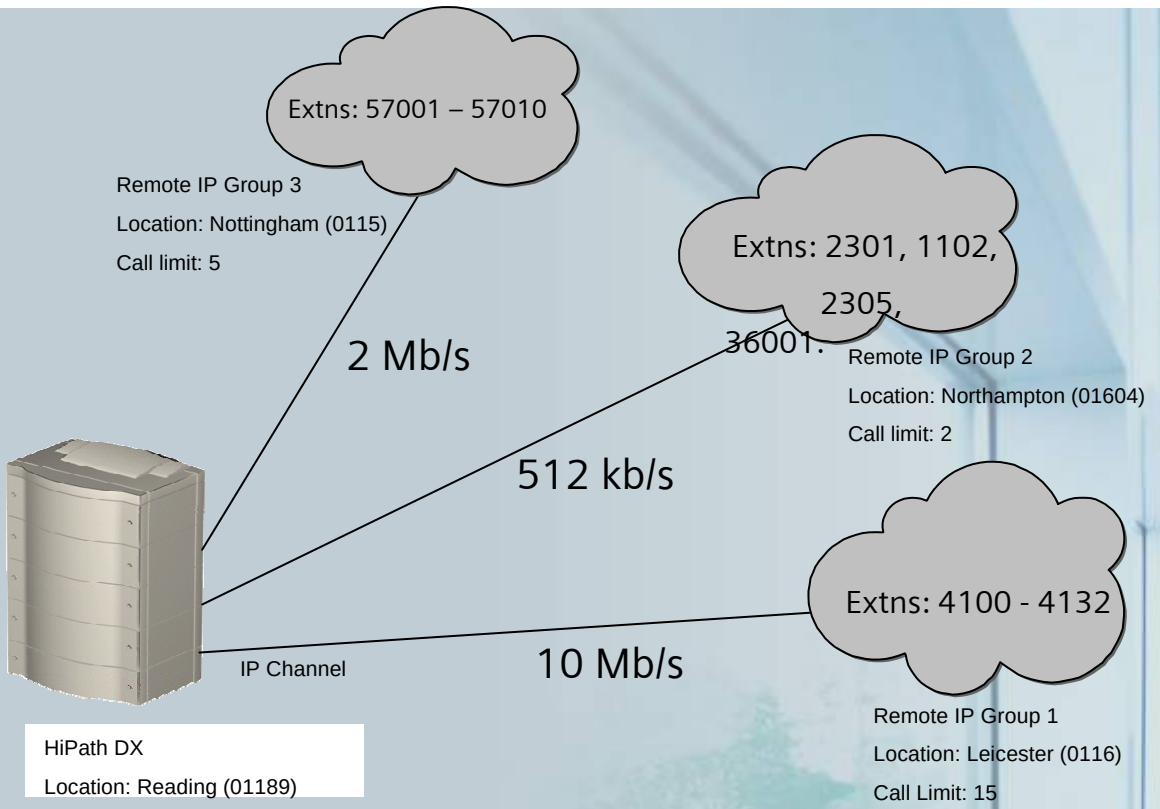
Switch based Congestion Control

- Each group has a maximum bandwidth allocation for calls to / from the HiPath DX
- When this is met no further calls allowed
- For example, 10 users 5 concurrent calls allowed

Local Dialling Code

- Users have no need to prefix local STD code for calls to their local area
- e.g. User at Site B dials a local number – HiPath DX at Site A prefixes Site B STD digits

A configuration example – Congestion control



- 3 remote groups defined each with a defined outgoing call capacity
- If call is made to a remote group, capacity at this site will also be checked prior to allowing the call (otherwise busy)
- If no spare call capacity, 'line in use' displayed, 3 warning buzzes

Congestion Control – Specification I

- **Bandwidth calculations based on G.711**
  - 80 kb/s for a half duplex call, 160 kb/s duplex
- **e.g. 10M link 70% loaded supports 43 duplex calls**
- **'Permanent' site extensions configured within a remote group**
- **Visiting (e.g. laptop) users not considered as Group members**
  - Design spare capacity based on anticipated site usage
- **Remote groups can be activated / de-activated on a per-group basis**
- **If the group is not activated, no congestion control is invoked for that group**

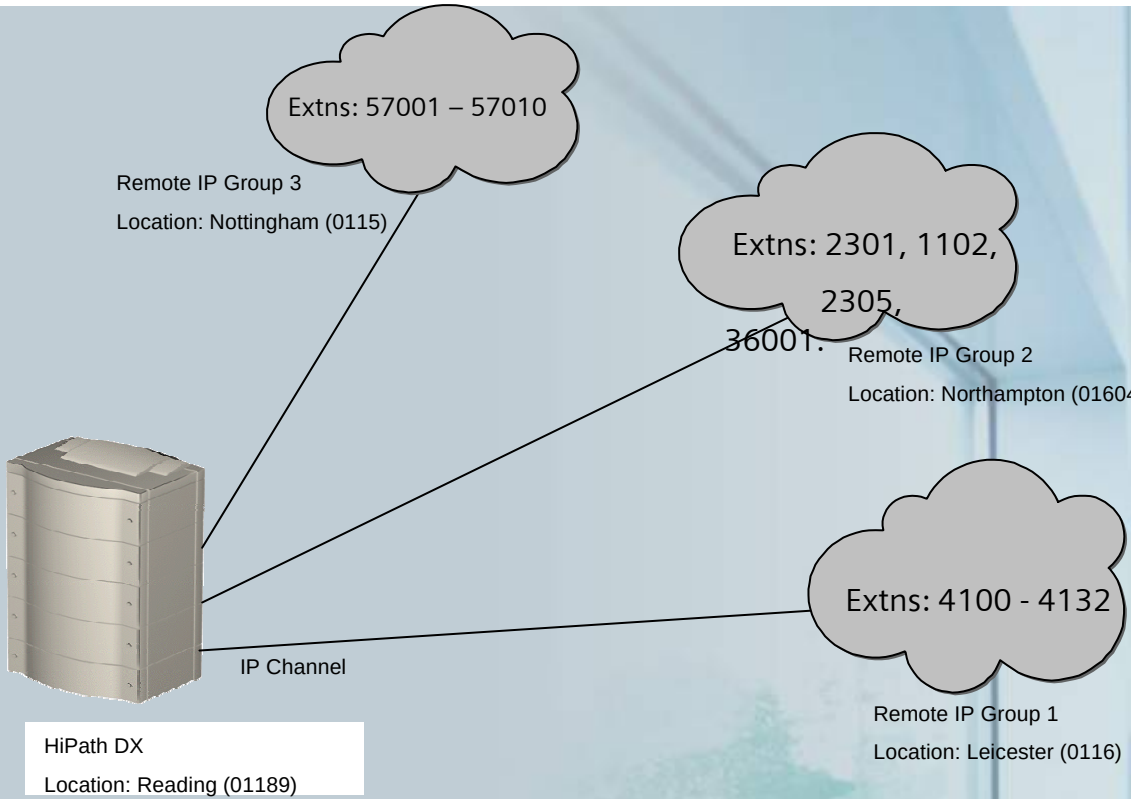
Congestion Control – Specification II

- **Controlled by configurable 'Bandwidth Congestion Control' option - ON / OFF**
  - Chargeable option (no charge currently proposed)
- **Two new System Parameters**
  - SPNRI – max. no. IP groups (500)
  - SPRNM – max. no. group members across all groups (5000)
- **Max. number of group members within a single group limited to 255**
- **Call capacity can be set from 0 to 'no limit'**
- **New MMI commands (see next slide)**

Congestion Control – New MMI commands

- ACRG Activate Remote IP Group
- CRGS Clear IP Group Statistics
- DRIG Delete Remote IP Group
- LRGS List IP Group Statistics
- LRIG List a group or all groups
- NRIG Create a new group
- RIGM Add or remove an IP Group member
- RRIG Revise the Bandwidth and IP Group name
- RRIS Revise Remote IP Group Size

A configuration example – Local dialling



- e.g. Call from Nottingham to a local (off-site) destination
  - Local number can be dialled
  - Check Call Limit not exceeded
  - If within limit, Reading DX will prefix Nottingham STD code digits (followed for all calls by standard digit translation)

Local Dialling – New MMI command

- **RRIG** **Revise the STD code of a Remote IP Group**
  - STD prefix can be set to ‘none’

Project Time-Scales

- Ready for trial June 06
- Full release by Jan 07

Conclusion

- **Functionality enhancements for HiPath DX remote sites**
  - Congestion Control
  - Local dialling
- **Project defined and on schedule**
- **Trials planned for June 06**