


Slide 25

External Control System API

- HDCS is able to be controlled through ASCII based commands sent via TCP at IP address 172.30.100.2 on port 6000
- Commands are structured in the format of
 - Destination space [V/L] [Origin/Station], [Line/Feed]
 - HDCS response commands are structured similar but have a response designation at the start of the message [response] [original command]
- Any command that is an invalid command will be returned with a Fail response
 - Info: O S V/Ln sent, the return response would be fail:Info: O S V/Ln
- Any command that is a valid will be returned
 - Fail response
 - Info: O S V/Ln sent, then the return response would be either
 - Alert: O S V/Ln
 - Alert: O S V/Ln
- Typical Call Sequence
 - Station presses a button - an Info: [ODC] [Station] is sent by the HDCS to all ODC's it has been configured for
 - ODC's engage motors to receive this call - a message is sent by the HDCS
 - ODC answers the call by sending a send: [ODC] [Station] to HDCS
 - HDCS then sends back [ODC] [Station] to all the pending ODC's and a scan: [ODC] [Station] is sent to indicate who took the call
 - When the call is done ODC sends a end: [ODC] [Station] to HDCS which disconnects the call
- SERVERS need a little more information
 - Info: [Command] [Station] [Origin] [Destination] [Station] [V/L] where "V" is a carriage return and "L" is a line feed
 - Send Command for a SERVER - [Command] [Station] [Origin] [Destination] [Station] [V/L]



Slide 26

API Command List


- Lots of Commands available to integrate with Control Systems




Slide 27

API Command Details

- "talk" - Intercom Call - When an ODC wants to talk to a Station - Command: talk O S V/Ln // Connect comms O to S
- "tend" - Intercom Call End - When an ODC wants to disconnect or "end" a call to a Station - Command: tend O S V/Ln // End call/Comms O to S
- "long" - Intercom Call Request - When a Station places a call to an ODC - Command: long O S V/Ln // A call from S for O is generated by the MC-IP-116.
- "cancel" - Intercom Call Cancelled - When a Station cancels a call to an ODC - Command: cancel O S V/Ln // A call from S for O
- "talk" - Master to Master Call - When an ODC wants to call another ODC - Command: talk O O V/Ln // Connect comms O to O
- "talk" - Master to Master Call End - ODC wants to end a currently active call to another Master - Command: talk O O V/Ln // End call/Comms O to O
- "talk" - Page Call - When an ODC wants to Page a Page Group / Zone - Command: talk O P V/Ln // Connect Page O to page group P
- "talk" - Page End - When an ODC wants to end a Page - Command: talk O P V/Ln // End Page O to group P
- "talk" - Forward All Calls - When an ODC wants to go out of service and Forward All Calls to a different Operator Console - Command: talk O O V/Ln // Forward O to O
- "talk" - Forward All Reset - When an ODC wants to go back into service and end Call Forward All - Command: talk O O V/Ln // Cancel Forward O to O
- "talk" - Intercom List - List of all active ODC to Station calls - Command: list V/Ln
- "talk" - Master List - List of all active ODC to ODC calls - Command: list V/Ln
- "talk" - Forward List - List of all active forwards - Command: list V/Ln
- "talk" - Forward Not Possible - This is sent when a forward is not possible.
- "talk" - No Connection Possible - This is sent when an action is not allowed due to the configuration.



**Making Specialized
Communications Easy**
Up Next
Take the Tests and get Certified
